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TRACTION DATA ANALYSIS

Part 1: Perfluoropolyalkylether Fluids

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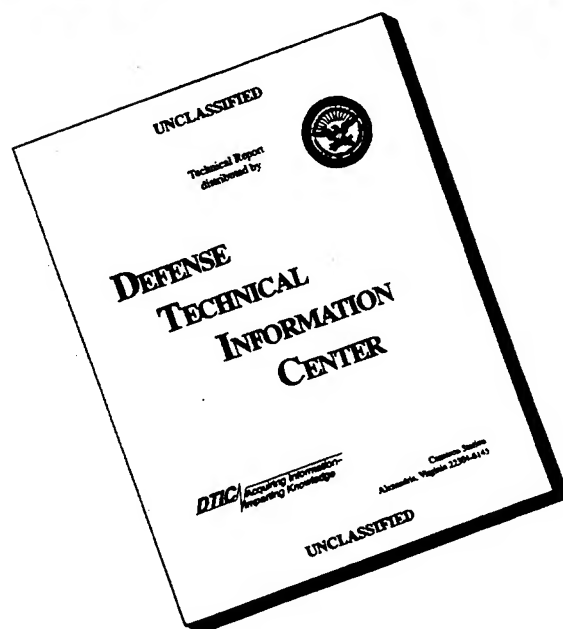
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FOREWORD

This report documents the first set of traction data and model correlations. All the experimental data were obtained at the Air Force Materials Directorate (WL/MLBT). The effort was carried out under Air Force Contract F33615-92-C-5902 with Mr. Shashi K. Sharma (WL/MLBT) as the Air Force Technical Monitor.

1. Executive Summary

Introduction

Rheological behavior of lubricants has proven to be a controlling factor in determining performance of mechanical components, such as, rolling bearings, gears, cams, and practically any mechanical system where lubricated rolling/sliding contacts are employed. The lubricant behavior as a function of pressure and temperature in the contact define the shear stress, which is integrated over the contact zone to determine overall traction force, which in turn leads to acceleration of interacting mechanical elements, thereby affecting dynamics of the mechanical component and overall performance of the system as a whole. Thus modeling the traction behavior of a lubricant has been of substantial practical significance. On a fundamental level the lubricant behavior has been either classified as Newtonian, where the viscosity varies as a function of pressure and temperature, or visco-elastic, where both viscosity and elastic properties, such as shear modulus and critical shear stress, define the lubricant behavior in a concentrated contact. A direct measurement of the constitutive constants in either of the models has been extremely difficult. For practical design stand point, therefore, the approach has been to experimentally measure lubricant traction, and then estimate the constitutive coefficients by regression analysis of the experimental data. Based on such a semiempirical approach, primary objective of the present investigation is to develop significant rheological parameters for perfluoropolyalkylether (PFPAE) type fluids which are presently used as a lubricant in a wide variety of space applications.

Experimental

Conventional rolling disk type of apparatus constitutes the basic foundation of the experimental investigation. Specific details of the apparatus have been published in related publications [1-3] and they are omitted here for brevity. A pair of disk specimens are driven independently when a radial load is applied to form a concentrated contact. The rotational velocities of the disks are varied such that while the difference in the two surface velocities increases, sum of the two velocities is kept constant. Thus the rolling speed remains constant while the sliding velocity is varied. Torque transducers on one of the disk specimens measures the torque, which can be easily converted to traction force or traction coefficient, defined as a ratio of the traction force to applied normal load. The torque and slip signals are fed to a data acquisition system where the data may be digitized and stored for later processing. The experiment is repeated over a range of applied load, rolling velocities and operating temperatures. Such a data base is generated for each lubricant to be modeled.

Test Specimens, Lubricants and Operating Conditions

Geometry of the disk specimens and the different variations of the PFPAE-type fluids considered in the present investigation are summarized in Table 1. Except for the first case (Lubricant A), where the disk geometry results in essentially a line contact, all test specimens produce a point contact geometry. The rolling radius is constant for all tests, while the crown radii have a small variation. For case A the crown radii are, of course, large to produce a line contact condition. The first three lubricants (cases A, B and C), listed in Table 1 are branched PFPAE fluids, similar to

the commercial fluids, known by the trade name of Krytox. Case D is a linear PFPAE fluid similar to the commercial Fomblin Z fluid. In fact, this fluid represents the commonly used base stock for other fully formulated Fomblin Z type fluids. For example, the fluid in case E is produced by introducing a 0.5% Ausimont additive to the base stock, in case D. The fluid in case F is very similar to that in case D, except that the base viscosity is somewhat higher. Finally, case G is another variation of a linear PFPAE fluid, similar to the commercial fluid Demnum S-20.

The inlet temperature in all cases varied in the range of 300 to 422 °K, while the range for rolling speed was approximately 2 to 20 M/S. Contact loads were varied to produce a variation of contact stress in the range of about 0.90 to 2.50 GPa. For the specimen geometry presented in Table 1, the contact ellipticity ratio for case A is 4.68 while the values for all other cases are approximately 1.0, corresponding a circular contact.

Viscosity-Pressure-Temperature Relations

Viscosity data, as a function of pressure and temperature, for most of the fluids is available in the existing literature (1,4). For the present investigation, the data are fitted to an equation of the form:

$$\mu = \mu_o \left\{ \exp \alpha_1 p + \alpha_2 p^2 + \beta_1 \left(\frac{1}{T_o} - \frac{1}{T} \right) + \beta_2 \left(\frac{1}{T_o} - \frac{1}{T} \right)^2 + \gamma p \left(\frac{1}{T_o} - \frac{1}{T} \right) \right\}$$

where μ is the viscosity at pressure p and temperature T , μ_o is the reference viscosity at reference temperature T_o , and α , β , γ , are respectively the viscosity-pressure, viscosity-temperature and viscosity-pressure-temperature coefficients.

The available data are curve fitted to the above equation and the various coefficients are computed by regression analysis. Typical fit is shown in Figure 1, and the computed coefficients for lubricant cases B, C, D and G are summarized in Table 2. Most of the available data are in the pressure range of 0 to 1 GPa. Behavior of the Krytox 143ab type fluid (case A) is assumed to be same as that of Krytox 143ac (case B), except that the base viscosity is set to a lower value of 0.23 Pa.S. Similarly, the behavior of Fomblin Z-25 type fluid (case F) is assumed to identical to that of case D with a higher base viscosity of 0.35 Pa.S. In case F it is assumed that the additive will have little or no effect on lubricant viscosity. The viscosity behavior in this case is, therefore, assumed to be identical to that in case D. Values for thermal conductivity for all fluids are closely similar. The actual values used in the present investigation are respectively 0.090, 0.098 and 0.08 N/S/°C for cases A to C, D to F, and G.

Data Preprocessing

The raw experimental data consist of disk rpm and torque, as measured by a transducer on one of the disks. The data are generally plotted as torque versus the difference in the rpm of the two disks, which corresponds to relative slip. The relative slip is varied from a negative to a positive value. The first step in data preprocessing is to compute the effective data origin. This is done by simply integrating torque with respect to the slip velocity. Since the magnitude of slip velocity at the first and last data point are closely identical, and the directions of slip at these two extreme points are opposite to each other, the integrated torque value may be used to compute a mean

value, which by symmetry corresponds to a torque value at zero slip. This value is, therefore, subtracted from the torque data to compute the effective data origin. With the given normal load, and appropriate scale factors, the torque data may now be converted to traction coefficient versus slide-to-roll plots. Since the traction coefficient should not depend on the direction of slip, the traction curve may be folded over about the zero point. These two folded curves may now be used to compute a mean traction coefficient at a given slide-to-roll value. Also, the data may now be sampled to select a set of points which may be subsequently used in traction modeling.

Data Selection for Traction Modeling

Although the experimental data are obtained over a broad variation of rolling velocity, it may not be possible to analytical model traction when the lubricant film thickness is less than a certain critical value, which is generally taken as three times the composite rms roughness of the two disks. Using such a criterion, the data at very low film thickness is excluded from traction modeling work.

Traction Modeling Procedure

The approach for traction modeling is based on the work by Gupta [5], which is actually after the earlier work by Kannel and Walowit [6]. This model is essentially based on Newtonian behavior of the fluid in the contact zone, where the pressures are significantly higher than those at which the lubricant viscosity data, discussed above, is available. Thus another, some what simplified, viscosity relation is assumed to define lubricant traction:

$$\mu = \tilde{\mu}_o \exp \{ \tilde{\alpha} p + \tilde{\beta} (T_o - T) \}$$

where $\tilde{\mu}_o$, $\tilde{\alpha}$, and $\tilde{\beta}$ are the effective coefficients which define the viscosity behavior in the high pressure contact zone.

With the above assumption of lubricant behavior, traction modeling consists of two steps: first the lubricant behavior under ambient pressure is used to compute the lubricant film thickness, and then the energy equation is solved through the film to compute the shear stress distribution, using the above "effective" viscosity relation. The shear stress is, of course, expressed in terms of the three unknown coefficients. The computed shear stress is then integrated to compute the total traction force and thus a traction coefficients is computed in terms of the three coefficients in the viscosity relation. A least squared regression analysis of the available experimental traction data is now performed to compute the three coefficients, for best fit of the model to the experimental data. Analytical details of the model are omitted here, since a complete formulation has been published in earlier work [5].

As shown earlier [5,6], the above simplified model results in an almost closed form solution, once the three constitutive constants, $\tilde{\mu}_o$, $\tilde{\alpha}$, and $\tilde{\beta}$ are known. In addition the lubricant properties vary as a function of pressure and temperature throughout the contact. Such a property variation results in an acceptable simulation of all thermal effects. Such properties of this model make it computationally very efficient, and model implementation in practical design tools, such as rolling bearing dynamics analysis [7], becomes quite straight forward.

An alternate approach to model traction behavior is based on visco-elastic effects [8,9]. Here, the pertinent lubricant properties, in addition to viscosity, include shear modulus and critical shear stress beyond which the viscous effect becomes significant. Again the properties may vary with pressure and temperature. However, the model is computationally more complex and generally requires integration of a differential equation through the lubricant film, and therefore, model implementation to practical design tools is somewhat more difficult. Some simplifications are possible if constant properties are used [7]. However, under such simplifications the simulation of thermal effects becomes difficult. For the set for fluids considered in the present investigation, the thermal effects are significant, as seen by reducing traction coefficient at higher slip velocities. The visco-elastic model with constant properties, therefore, does not provide a good fit to the data. A typical comparison of the two models is shown in Figure 2. Thus, with the primary objective of deriving model coefficients, for numerically efficient traction prediction for practical designs, the present investigation is limited to the Newtonian model. A more rigorous evaluation of the visco-elastic model is deferred to future investigations.

Results

Typical model correlations for the Krytox-type fluids are shown in Figure 3, which displays the data for the cases A and C. In case A the traction slope at low slip velocities is noticeably higher than that seen in case C; this results in a higher value of the effective pressure-viscosity coefficient. Overall traction coefficients, however, are lower for case A than those for case C. Note that the contact geometry in case A has an ellipticity ratio of 4.68 compared to 1.0 for case C. Also, the ambient viscosity in case A is significantly lower than that in case C. Behavior of the fluid in case B, is quite similar to that seen in case C, in terms of the traction slope, although the overall traction coefficients are somewhat lower for case B in comparison to case C, in spite of relatively higher ambient viscosity for case B. In fact, the overall traction values for case B are almost at the mid point of cases A and C. Such observations lead to the conclusion that viscosity behavior in the low pressure region may not have a significant correlation to overall traction, which may be more related to viscosity behavior in the higher pressure zone. The overall model coefficients, as computed by regression analysis, for cases A to C are summarized in Table 3.

Overall model correlations for the linear fluids are similar, in nature, to those discussed above. Figure 4 compares the base fluid in case D with the fluid with an additive (0.5% Ausimont) in case E. Note that the fluid with additive (case E) results in overall higher traction coefficient; also, the traction slope appears to be somewhat higher. Although at lower rolling velocities the slopes are closely similar. Behavior of the higher ambient viscosity base stock in case F, is almost identical to that of base stock in case D, except that the regression analysis indicates a slightly higher traction slope. For the linear fluid in case G, the overall traction coefficients, when compared to those seen with cases D, E and F, are significantly higher, although the traction slopes are similar. The various model coefficients for all the linear fluids, case D to G, are summarized in Table 4.

Conclusions

For the purpose of traction prediction in practical design applications, a Newtonian model may be used for both branched and linear PFPAE fluids. However, the viscosity relation in the lower pressure region may not have any correlation to traction, which is primarily determined by the lubri-

cant behavior in the high pressure region of the contact zone. It is, therefore, essential to estimate lubricant viscosity behavior in the high pressure zone. The various constitutive coefficients of such an effective viscosity-pressure-temperature relation may be computed from regression analysis of experimental traction data. Traction coefficients, computed from these estimated viscosity relations, for all fluids considered in the present investigation show acceptable correlations. The model coefficients may, therefore, be readily used in practical designs.

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Table 1: Test Lubricants and Disk Specimen Geometry

Test Case #	Test Codes	Similar Commercial Product	Disk Geometry		
			Rolling Radius (mm)	Crown Radius (mm)	
				Disk 1	Disk 2
A	BN 90-629	Krytox 143ab	19.050	203.200	203.200
B	CB 71-6	Krytox 143ac	19.050	23.110	24.892
C	CG 66-92	Krytox 143az	19.050	18.542	17.780
D	BZ 78-80	Fomblin Z04 Base	19.050	19.304	19.304
E	CF 92-162	Fomblin Z +0.5% Ausimont	19.050	18.542	17.788
F	CH 89-191	Fomblin Z25 Base	19.050	20.320	22.860
G	CE 88-177	Demnum S20	19.050	30.480	30.480

Table 2: Viscosity-Pressure-Temperature Relations
Reference Temperature $T_0 = 300 \text{ }^\circ\text{K}$

Lubricant	μ_0 (Pa.S)	α_1 (1/GPa)	α_2 (1/GPa) ²	β_1 (1/K) $\times 10^{-3}$	β_2 (1/K) ² $\times 10^{-6}$	γ (1/K/GPa) $\times 10^5$
B: Krytox 143ac	1.433	40.35	-9.684	6.756	2.528	2.124
C: Krytox 143az	0.06059	29.81	-4.354	5.702	3.097	1.608
D: Fomblin Z04	0.04602	15.89	-5.287	1.931	0.02951	0.6171
G: Demnum S20	0.1150	2.057	-5.328	4.851	2.192	0.8289

Table 3: Effective Coefficients for Branched Fluids

Inlet Temp (K)	Roll Velo (M/S)	A: Krytox 143ab $\tilde{\alpha} = 5.5 \text{ 1/GPa}$		B: Krytox 143ac $\tilde{\alpha} = 1.7 \text{ 1/GPa}$		C: Krytox 143az $\tilde{\alpha} = 1.7 \text{ 1/GPa}$	
		$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)
300	5					193.0	0.0373
	10	5.624	0.0252			147.9	0.0275
	15	3.385	0.0285				
	20	3.031	0.0336			80.00	0.0230
311	5					113.8	0.0424
	10	5.184	0.0299			96.98	0.0292
	15	3.150	0.0262				
	20	2.579	0.0313			68.78	0.0221
339	5					38.96	0.0839
	10	3.562	0.0545	183.9	0.0294	35.01	0.0448
	15	2.833	0.0415	139.4	0.0301		
	20	2.343	0.0364	99.01	0.0301	32.47	0.0283
367	5					14.27	0.166
	10	1.507	0.113	101.6	0.0425	11.33	0.0772
	15	1.243	0.0726	92.83	0.0340		
	20	1.298	0.0625	78.13	0.0286	14.08	0.0456
394	5					6.729	0.315
	10	0.5648	0.256	48.46	0.0800	5.762	0.141
	15	0.4795	0.140	49.48	0.0572		
	20	0.5617	0.121	50.56	0.0450	5.944	0.0737
422	5					2.818	0.454
	10	0.1822	0.460	22.72	0.132	2.613	0.251
	15	0.1995	0.277	23.95	0.0929		
	20	0.248	0.229	23.54	0.0665	2.903	0.127

Table 4: Effective Coefficients for Linear Fluids

Inlet Temp (K)	Roll Velo (M/S)	D: Fomblin Z04 $\tilde{\alpha} = 3.0 \text{ 1/GPa}$		E: Fomblin Z+ $\tilde{\alpha} = 3.0 \text{ 1/GPa}$		F: Fomblin Z25 $\tilde{\alpha} = 3.5 \text{ 1/GPa}$		G: Demnum S20 $\tilde{\alpha} = 2.5 \text{ 1/GPa}$	
		$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)	$\tilde{\mu}_o$ (Pa.S)	$\tilde{\beta}$ (1/K)
300	5	11.12	0.101	13.56	0.0545	15.53	0.0150	54.13	0.0332
	10	8.696	0.0651	11.04	0.0278	13.66	0.00806	48.85	0.0347
	15	11.07	0.0546					35.09	0.0351
	20	10.75	0.0452	20.78	0.0162	34.26	0.00570	25.20	0.0379
311	5	7.296	0.117	7.651	0.0452	14.46	0.0142	38.54	0.0376
	10	4.813	0.0630	5.710	0.0220	13.68	0.00744	39.89	0.0352
	15	8.058	0.0569					31.05	0.0334
	20	8.401	0.0476	16.68	0.0148	31.84	0.00522	24.34	0.0311
339	5	2.563	0.128	5.505	0.0366	8.402	0.0133	11.49	0.0594
	10	2.227	0.0707	3.691	0.0184	6.690	0.00699	13.90	0.0438
	15	4.015	0.0664					13.92	0.0362
	20	4.082	0.0505	9.244	0.0132	18.74	0.00494	13.04	0.0289
367	5	1.429	0.139	3.296	0.0360	4.995	0.0123	4.708	0.0869
	10	1.094	0.0772	2.713	0.0164	4.405	0.00689	5.193	0.0597
	15	2.277	0.0778					5.649	0.0456
	20	2.834	0.0578	7.664	0.0124	7.496	0.00415	6.838	0.0393
394	5	1.035	0.160	2.230	0.0352	2.182	0.0110	2.147	0.142
	10	0.5730	0.0884	1.713	0.0142	2.301	0.00633	1.789	0.0766
	15	1.108	0.0813					2.352	0.0650
	20	1.369	0.0597	4.368	0.0108	5.244	0.00393	2.900	0.0542
422	5	0.2519	0.288	1.048	0.0405	1.182	0.0149	1.266	0.276
	10	0.207	0.0918	0.9692	0.0147	1.268	0.00607	0.795	0.114
	15	0.6034	0.0916					1.042	0.0909
	20			2.598	0.0101	3.141	0.00402	1.373	0.0806

BZ 78-80 Fomblin Z04 Base
Viscosity Model Type 2

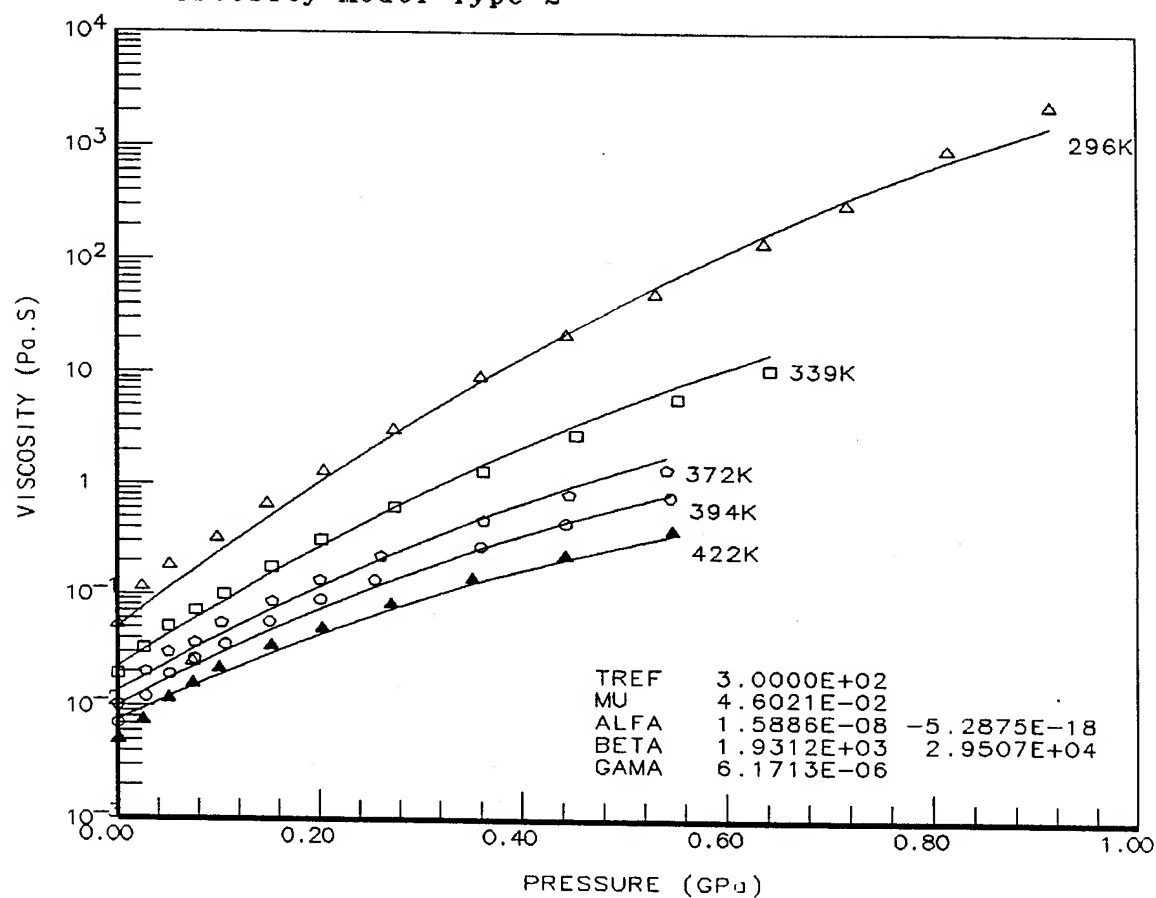


Figure 1.
Typical viscosity-pressure-temperature data.

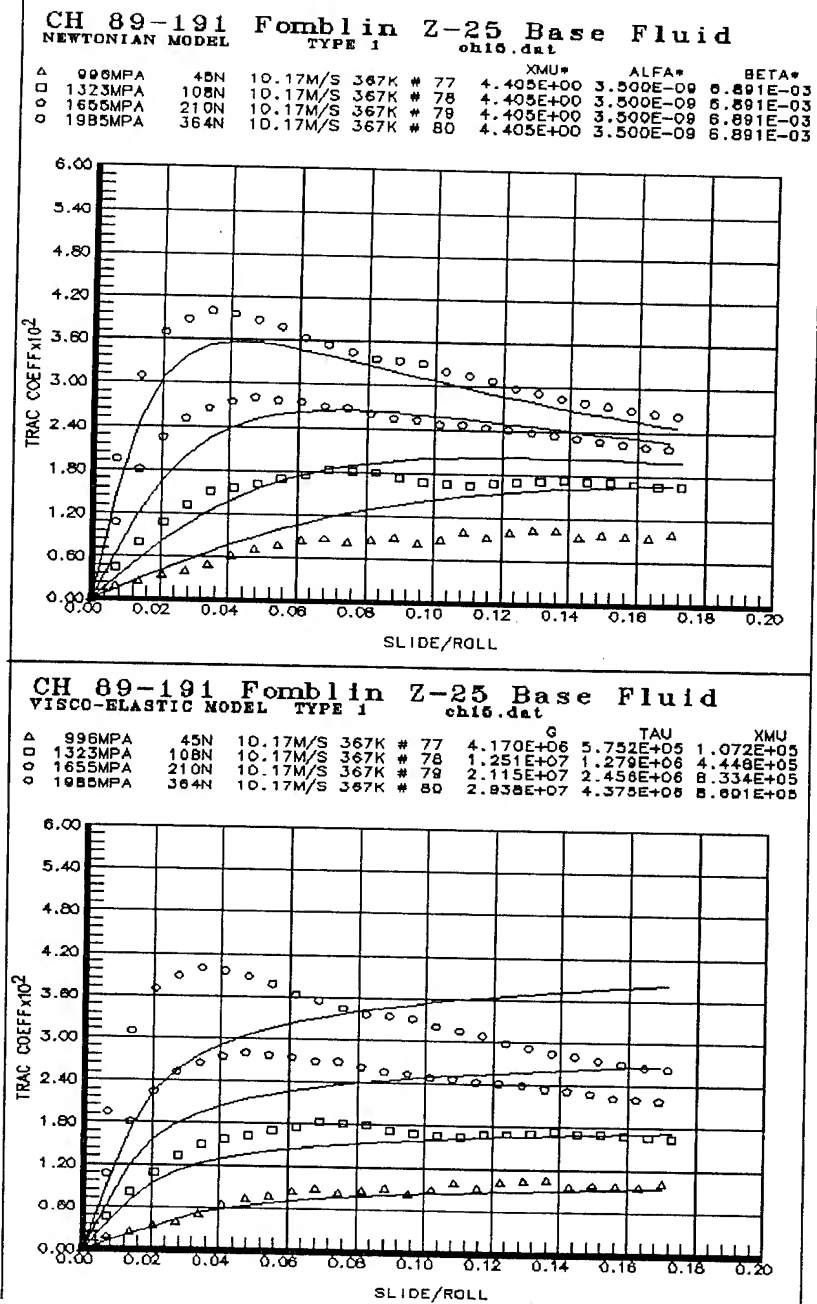
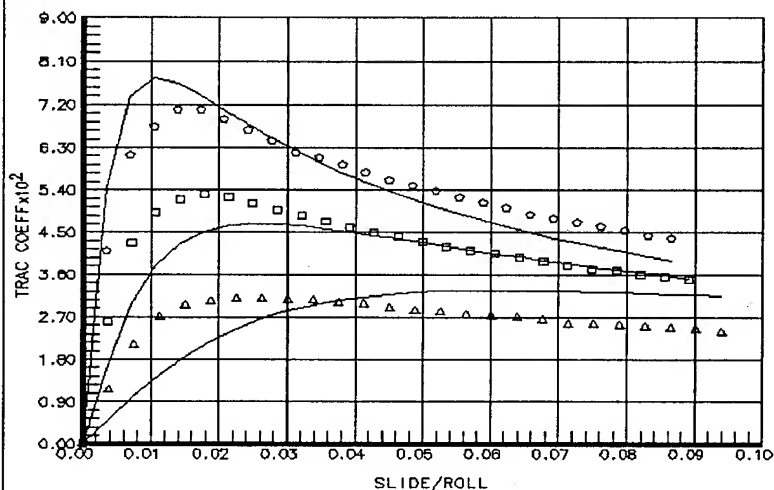


Figure 2.
Comparison of the Newtonian and visco-elastic model with constant properties.

BN 90-629 Krytox 143ab

NEWTONIAN MODEL TYPE 1 bnl6.dat

						XMU*	ALFA*	BETA*
△	863MPa	55N	20.32M/S	339K # 16		2.343E+00	5.500E-09	3.644E-02
□	995MPa	290N	20.32M/S	339K # 17		2.343E+00	5.500E-09	3.644E-02
○	1329MPa	685N	20.32M/S	339K # 18		2.343E+00	5.500E-09	3.644E-02



CG 66-92 Krytox 143 az

NEWTONIAN MODEL TYPE 1 cgl3.dat

						XMU*	ALFA*	BETA*
△	991MPa	38N	20.25M/S	339K # 47		3.247E+01	1.700E-09	2.836E-02
□	1321MPa	91N	20.25M/S	339K # 48		3.247E+01	1.700E-09	2.836E-02
○	1651MPa	178N	20.25M/S	339K # 49		3.247E+01	1.700E-09	2.836E-02
○	1954MPa	307N	20.25M/S	339K # 50		3.247E+01	1.700E-09	2.836E-02

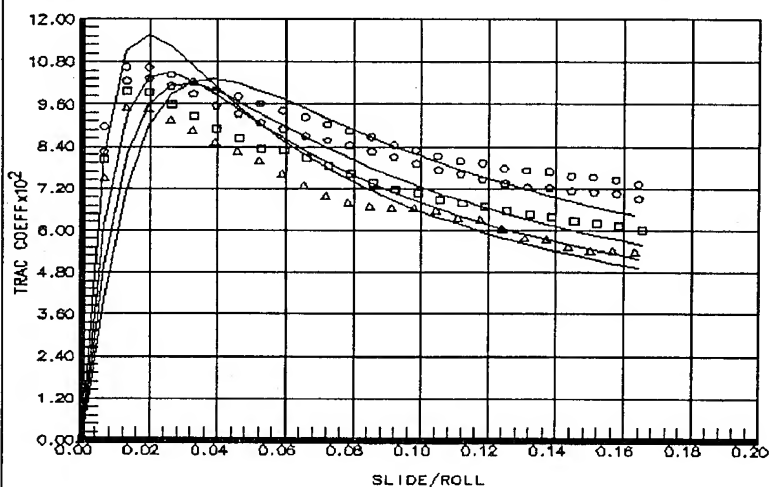


Figure 3.
Typical traction data correlations to the Newtonian model.

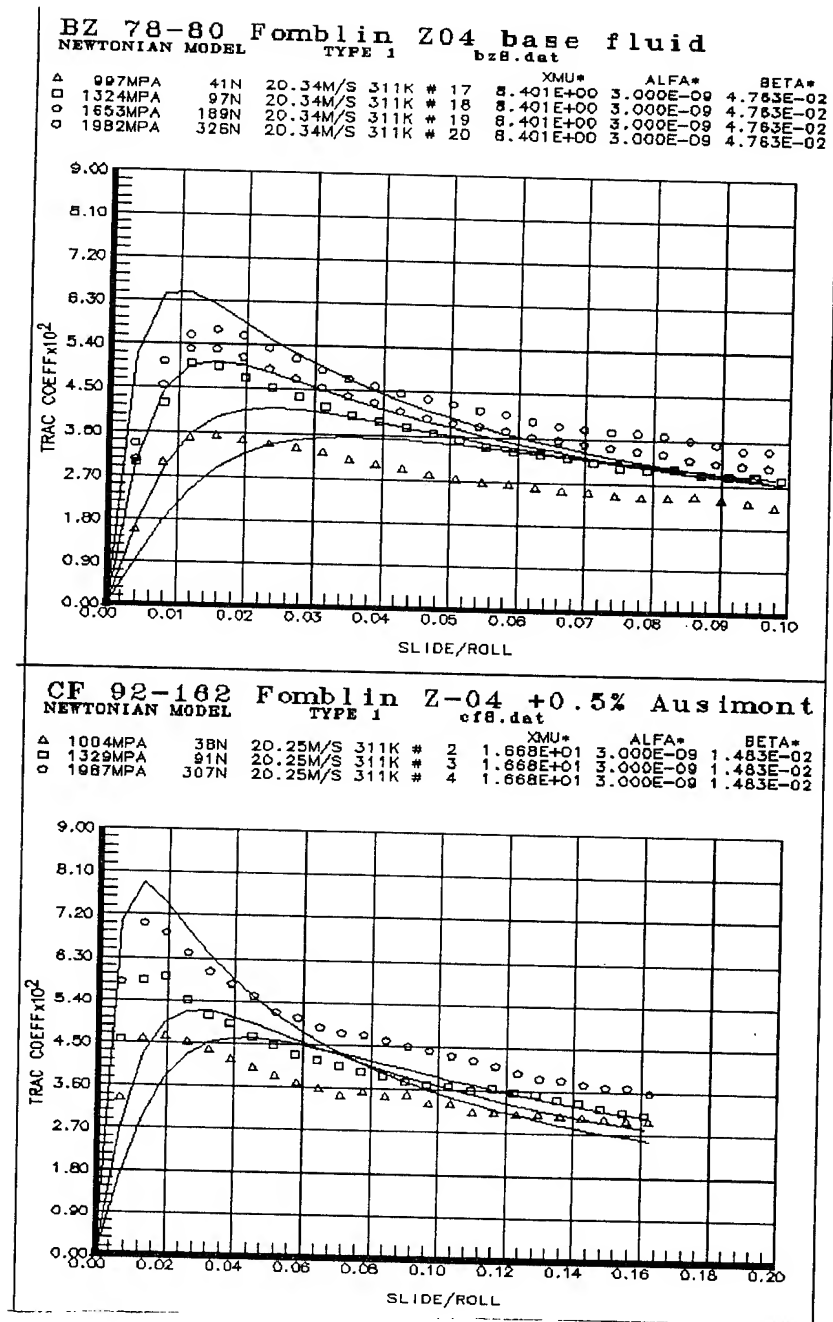


Figure 4.
 Effect of 0.5% Ausimont additive on traction with a linear PFPAE fluid.

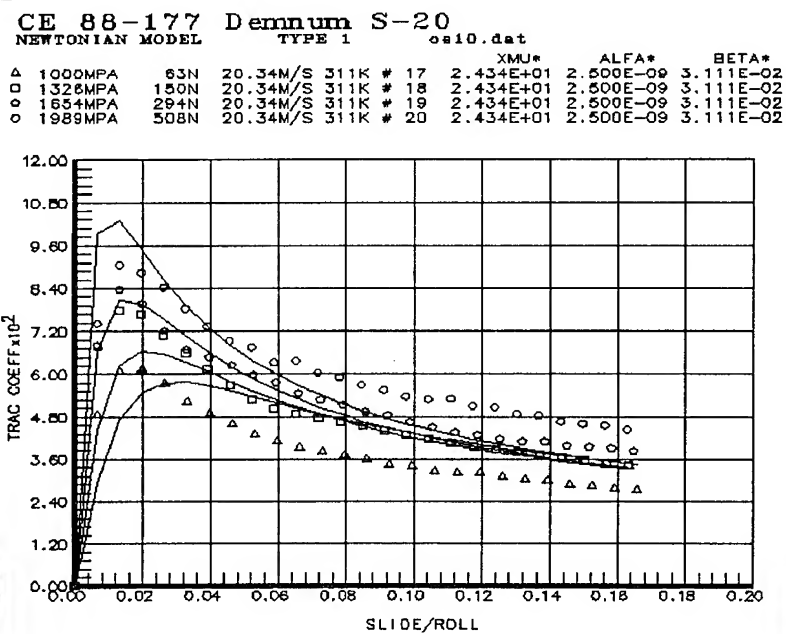


Figure 5.
 Traction with the Demnum S-20 type PFPAE linear fluid.

2. Traction Data Set A: 90-629 Krytox 143ab

Data set name: BN 90-629 Krytox 143ab
 Rolling radii [Disks 1 & 2] (in): 0.75 0.75
 Crown radii [Disks 1 & 2] (in): 8.00 8.00

Number of data sets found = 135

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
1	80.00	19.10	4838.00	5348.00	5093.00	100	629-08-fhi #1
2	80.00	65.25	4838.00	5348.00	5093.00	100	629-08-fhi #2
3	80.00	154.00	4838.00	5348.00	5093.00	100	629-08-fhi #3
4	80.00	19.10	7257.00	8021.00	7639.00	100	629-08-fhi #4
5	80.00	65.25	7257.00	8021.00	7639.00	100	629-08-fhi #5
6	80.00	154.00	7257.00	8021.00	7639.00	100	629-08-fhi #6
7	80.00	19.10	9677.00	10695.00	10186.00	100	629-08-fhi #7
8	80.00	65.25	9677.00	10695.00	10186.00	100	629-08-fhi #8
9	80.00	154.00	9677.00	10695.00	10186.00	100	629-08-fhi #9
10	150.00	19.10	4838.00	5348.00	5093.00	100	629-15-fhi #1
11	150.00	65.25	4838.00	5348.00	5093.00	100	629-15-fhi #2
12	150.00	154.00	4838.00	5348.00	5093.00	100	629-15-fhi #3
13	150.00	19.10	7257.00	8021.00	7639.00	100	629-15-fhi #4
14	150.00	65.25	7257.00	8021.00	7639.00	100	629-15-fhi #5
15	150.00	154.00	7257.00	8021.00	7639.00	100	629-15-fhi #6
16	150.00	19.10	9677.00	10695.00	10186.00	100	629-15-fhi #7
17	150.00	65.25	9677.00	10695.00	10186.00	100	629-15-fhi #8
18	150.00	154.00	9677.00	10695.00	10186.00	100	629-15-fhi #9
19	80.00	19.10	302.00	334.00	318.00	100	629_08_flow #1
20	80.00	65.25	302.00	334.00	318.00	100	629_08_flow #2
21	80.00	154.00	302.00	334.00	318.00	100	629_08_flow #3
22	80.00	19.10	334.00	302.00	318.00	100	629_08_flow #4
23	80.00	65.25	334.00	302.00	318.00	100	629_08_flow #5
24	80.00	154.00	334.00	302.00	318.00	100	629_08_flow #6
25	80.00	19.10	1209.00	1337.00	1273.00	100	629_08_flow #7
26	80.00	65.25	1209.00	1337.00	1273.00	100	629_08_flow #8
27	80.00	154.00	1209.00	1337.00	1273.00	100	629_08_flow #9
28	80.00	19.10	1337.00	1209.00	1273.00	100	629_08_flow #10
29	80.00	65.25	1337.00	1209.00	1273.00	100	629_08_flow #11
30	80.00	154.00	1337.00	1209.00	1273.00	100	629_08_flow #12
31	80.00	19.10	2419.00	2673.00	2546.00	100	629_08_flow #13
32	80.00	65.25	2419.00	2673.00	2546.00	100	629_08_flow #14
33	80.00	154.00	2419.00	2673.00	2546.00	100	629_08_flow #15
34	80.00	19.10	2673.00	2419.00	2546.00	100	629_08_flow #16
35	80.00	65.25	2673.00	2419.00	2546.00	100	629_08_flow #17
36	80.00	154.00	2673.00	2419.00	2546.00	100	629_08_flow #18
37	100.00	19.10	4838.00	5348.00	5093.00	100	629_10_fhi #1
38	100.00	65.25	4838.00	5348.00	5093.00	100	629_10_fhi #2
39	100.00	154.00	4838.00	5348.00	5093.00	100	629_10_fhi #3
40	100.00	19.10	7257.00	8021.00	7639.00	100	629_10_fhi #4
41	100.00	65.25	7257.00	8021.00	7639.00	100	629_10_fhi #5
42	100.00	154.00	7257.00	8021.00	7639.00	100	629_10_fhi #6
43	100.00	19.10	9677.00	10695.00	10186.00	100	629_10_fhi #7
44	100.00	65.25	9677.00	10695.00	10186.00	100	629_10_fhi #8
45	100.00	154.00	9677.00	10695.00	10186.00	100	629_10_fhi #9
46	100.00	19.10	302.00	334.00	318.00	100	629_10_flow #1
47	100.00	65.25	302.00	334.00	318.00	100	629_10_flow #2
48	100.00	154.00	302.00	334.00	318.00	100	629_10_flow #3
49	100.00	19.10	334.00	302.00	318.00	100	629_10_flow #4
50	100.00	65.25	334.00	302.00	318.00	100	629_10_flow #5

Data set: BN 90-629 Krytox 143abcontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
51	100.00	154.00	334.00	302.00	318.00	100	629_10_flow #6
52	100.00	19.10	1209.00	1337.00	1273.00	100	629_10_flow #7
53	100.00	65.25	1209.00	1337.00	1273.00	100	629_10_flow #8
54	100.00	154.00	1209.00	1337.00	1273.00	100	629_10_flow #9
55	100.00	19.10	1337.00	1209.00	1273.00	100	629_10_flow #10
56	100.00	65.25	1337.00	1209.00	1273.00	100	629_10_flow #11
57	100.00	154.00	1337.00	1209.00	1273.00	100	629_10_flow #12
58	100.00	19.10	2419.00	2673.00	2546.00	100	629_10_flow #13
59	100.00	65.25	2419.00	2673.00	2546.00	100	629_10_flow #14
60	100.00	154.00	2419.00	2673.00	2546.00	100	629_10_flow #15
61	100.00	19.10	2673.00	2419.00	2546.00	100	629_10_flow #16
62	100.00	65.25	2673.00	2419.00	2546.00	100	629_10_flow #17
63	100.00	154.00	2673.00	2419.00	2546.00	100	629_10_flow #18
64	150.00	19.10	302.00	334.00	318.00	100	629_15_flow #1
65	150.00	65.25	302.00	334.00	318.00	100	629_15_flow #2
66	150.00	154.00	302.00	334.00	318.00	100	629_15_flow #3
67	150.00	19.10	334.00	302.00	318.00	100	629_15_flow #4
68	150.00	65.25	334.00	302.00	318.00	100	629_15_flow #5
69	150.00	154.00	334.00	302.00	318.00	100	629_15_flow #6
70	150.00	19.10	1209.00	1337.00	1273.00	100	629_15_flow #7
71	150.00	65.25	1209.00	1337.00	1273.00	100	629_15_flow #8
72	150.00	154.00	1209.00	1337.00	1273.00	100	629_15_flow #9
73	150.00	19.10	1337.00	1209.00	1273.00	100	629_15_flow #10
74	150.00	65.25	1337.00	1209.00	1273.00	100	629_15_flow #11
75	150.00	154.00	1337.00	1209.00	1273.00	100	629_15_flow #12
76	150.00	19.10	2419.00	2673.00	2546.00	100	629_15_flow #13
77	150.00	65.25	2419.00	2673.00	2546.00	100	629_15_flow #14
78	150.00	154.00	2419.00	2673.00	2546.00	100	629_15_flow #15
79	150.00	19.10	2673.00	2419.00	2546.00	100	629_15_flow #16
80	150.00	65.25	2673.00	2419.00	2546.00	100	629_15_flow #17
81	150.00	154.00	2673.00	2419.00	2546.00	100	629_15_flow #18
82	200.00	19.10	4838.00	5348.00	5093.00	100	629_20_fhi #1
83	200.00	65.25	4838.00	5348.00	5093.00	100	629_20_fhi #2
84	200.00	154.00	4838.00	5348.00	5093.00	100	629_20_fhi #3
85	200.00	19.10	7257.00	8021.00	7639.00	100	629_20_fhi #4
86	200.00	65.25	7257.00	8021.00	7639.00	100	629_20_fhi #5
87	200.00	154.00	7257.00	8021.00	7639.00	100	629_20_fhi #6
88	200.00	19.10	9677.00	10695.00	10186.00	100	629_20_fhi #7
89	200.00	65.25	9677.00	10695.00	10186.00	100	629_20_fhi #8
90	200.00	154.00	9677.00	10695.00	10186.00	100	629_20_fhi #9
91	200.00	19.10	302.00	334.00	318.00	100	629_20_flow #1
92	200.00	65.25	302.00	334.00	318.00	100	629_20_flow #2
93	200.00	154.00	302.00	334.00	318.00	100	629_20_flow #3
94	200.00	19.10	1209.00	1337.00	1273.00	100	629_20_flow #4
95	200.00	65.25	1209.00	1337.00	1273.00	100	629_20_flow #5
96	200.00	154.00	1209.00	1337.00	1273.00	100	629_20_flow #6
97	200.00	19.10	2419.00	2673.00	2546.00	100	629_20_flow #7
98	200.00	65.25	2419.00	2673.00	2546.00	100	629_20_flow #8
99	200.00	154.00	2419.00	2673.00	2546.00	100	629_20_flow #9
100	250.00	19.10	4838.00	5348.00	5093.00	100	629_25_fhi #1
101	250.00	65.25	4838.00	5348.00	5093.00	100	629_25_fhi #2
102	250.00	154.00	4838.00	5348.00	5093.00	100	629_25_fhi #3
103	250.00	19.10	7257.00	8021.00	7639.00	100	629_25_fhi #4
104	250.00	65.25	7257.00	8021.00	7639.00	100	629_25_fhi #5
105	250.00	154.00	7257.00	8021.00	7639.00	100	629_25_fhi #6
106	250.00	19.10	9677.00	10695.00	10186.00	100	629_25_fhi #7
107	250.00	65.25	9677.00	10695.00	10186.00	100	629_25_fhi #8
108	250.00	154.00	9677.00	10695.00	10186.00	100	629_25_fhi #9
109	250.00	19.10	302.00	334.00	318.00	100	629_25_flow #1
110	250.00	65.25	302.00	334.00	318.00	100	629_25_flow #2
111	250.00	154.00	302.00	334.00	318.00	100	629_25_flow #3
112	250.00	19.10	1209.00	1337.00	1273.00	100	629_25_flow #4
113	250.00	65.25	1209.00	1337.00	1273.00	100	629_25_flow #5
114	250.00	154.00	1209.00	1337.00	1273.00	100	629_25_flow #6
115	250.00	19.10	2419.00	2673.00	2546.00	100	629_25_flow #7
116	250.00	65.25	2419.00	2673.00	2546.00	100	629_25_flow #8
117	250.00	154.00	2419.00	2673.00	2546.00	100	629_25_flow #9
118	300.00	19.10	4838.00	5348.00	5093.00	100	629_30_fhi #1
119	300.00	65.25	4838.00	5348.00	5093.00	100	629_30_fhi #2
120	300.00	154.00	4838.00	5348.00	5093.00	100	629_30_fhi #3

Data set: BN 90-629 Krytox 143abcontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
121	300.00	19.10	7257.00	8021.00	7639.00	100	629_30_fhi #4
122	300.00	65.25	7257.00	8021.00	7639.00	100	629_30_fhi #5
123	300.00	154.00	7257.00	8021.00	7639.00	100	629_30_fhi #6
124	300.00	19.10	9677.00	10695.00	10186.00	100	629_30_fhi #7
125	300.00	65.25	9677.00	10695.00	10186.00	100	629_30_fhi #8
126	300.00	154.00	9677.00	10695.00	10186.00	100	629_30_fhi #9
127	300.00	19.10	302.00	334.00	318.00	100	629_30_flow #1
128	300.00	65.25	302.00	334.00	318.00	100	629_30_flow #2
129	300.00	154.00	302.00	334.00	318.00	100	629_30_flow #3
130	300.00	19.10	1209.00	1337.00	1273.00	100	629_30_flow #4
131	300.00	65.25	1209.00	1337.00	1273.00	100	629_30_flow #5
132	300.00	154.00	1209.00	1337.00	1273.00	100	629_30_flow #6
133	300.00	19.10	2419.00	2673.00	2546.00	100	629_30_flow #7
134	300.00	65.25	2419.00	2673.00	2546.00	100	629_30_flow #8
135	300.00	154.00	2419.00	2673.00	2546.00	100	629_30_flow #9

Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #
bn1.dat	80.00	1273.00	28 29 30
bn2.dat	80.00	2546.00	34 35 36
bn3.dat	80.00	5093.00	1 2 3
bn4.dat	80.00	7639.00	4 5 6
bn5.dat	80.00	10186.00	7 8 9
bn6.dat	100.00	1273.00	55 56 57
bn7.dat	100.00	2546.00	61 62 63
bn8.dat	100.00	5093.00	37 38 39
bn9.dat	100.00	7639.00	40 41 42
bn10.dat	100.00	10186.00	43 44 45
bn11.dat	150.00	1273.00	73 74 75
bn12.dat	150.00	2546.00	79 80 81
bn13.dat	150.00	5093.00	10 11 12
bn14.dat	150.00	7639.00	13 14 15
bn15.dat	150.00	10186.00	16 17 18
bn16.dat	200.00	1273.00	94 95 96
bn17.dat	200.00	2546.00	97 98 99
bn18.dat	200.00	5093.00	82 83 84
bn19.dat	200.00	7639.00	85 86 87
bn20.dat	200.00	10186.00	88 89 90
bn21.dat	250.00	1273.00	112 113 114
bn22.dat	250.00	2546.00	115 116 117
bn23.dat	250.00	5093.00	100 101 102
bn24.dat	250.00	7639.00	103 104 105
bn25.dat	250.00	10186.00	106 107 108
bn26.dat	300.00	1273.00	130 131 132
bn27.dat	300.00	2546.00	133 134 135
bn28.dat	300.00	5093.00	118 119 120
bn29.dat	300.00	7639.00	121 122 123
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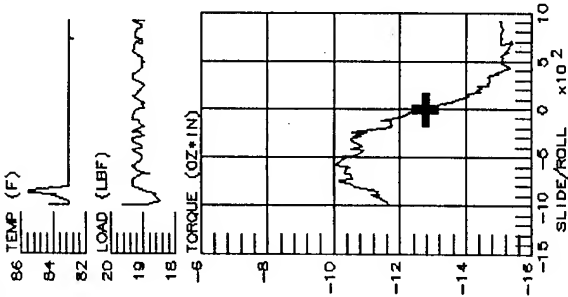
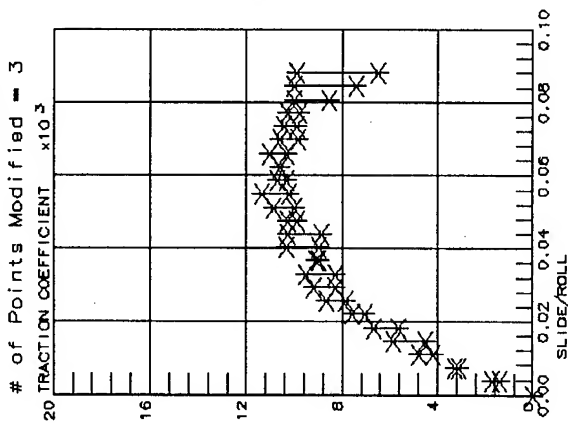
TRACTION DATA

BN 90-629 Krytox 143ab
80F 20LBF 5093RPM #1

FILE: 629-08-fh1

#1

of Points Modified = 3

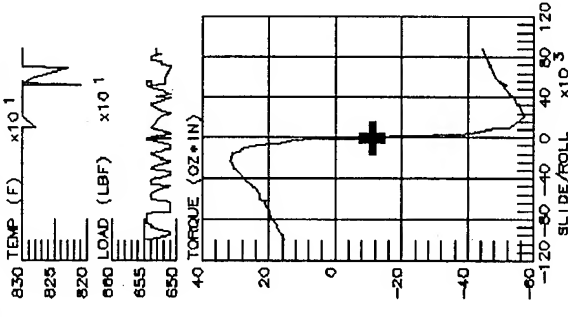
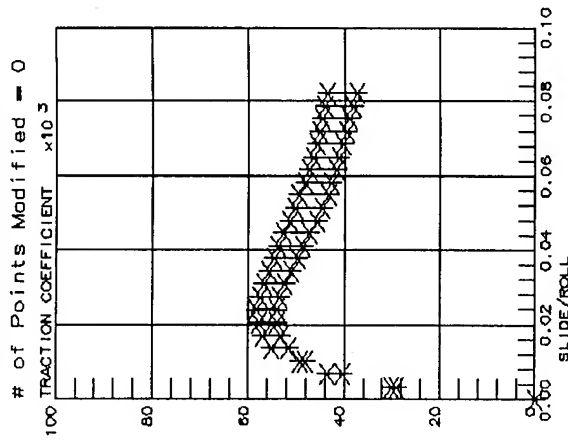


BN 90-629 Krytox 143ab
80F 66LBF 5093RPM #2

FILE: 629-08-fh1

#2

of Points Modified = 0

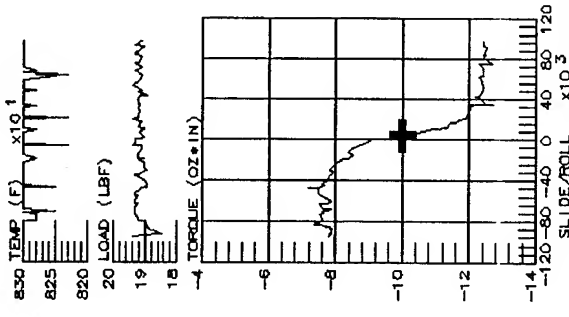
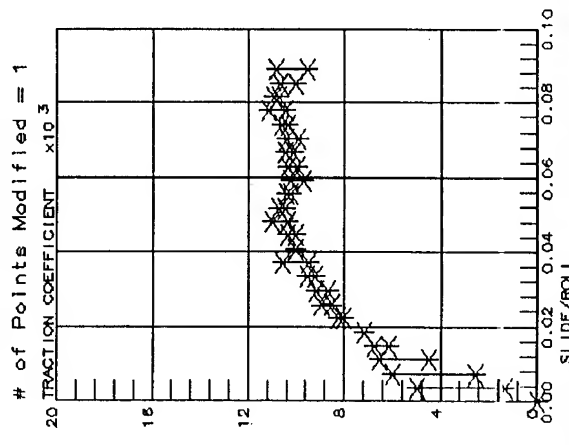
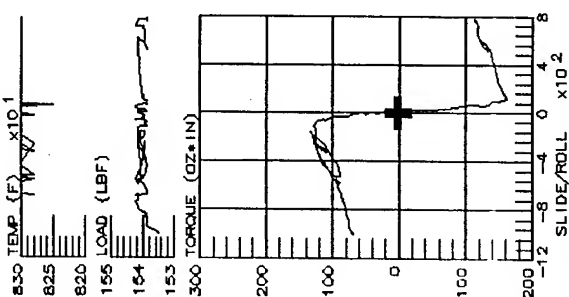
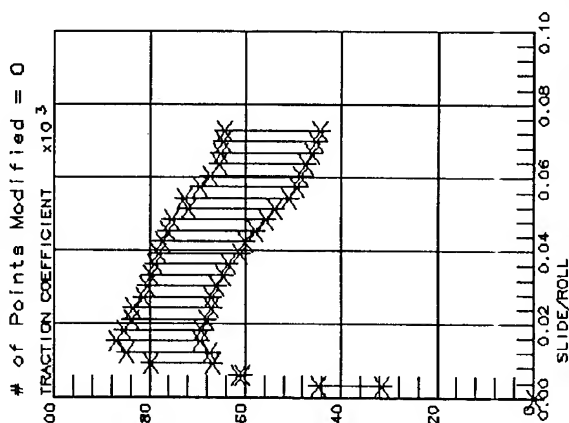


BN 90-629 Krytox 143ab
80F 20LBF 7639RPM #4

FILE: 629-08-fh1

#4

of Points Modified = 1



1

BN 90-829 Krytox 143ab #5
80F 66LBF 7639RPM #5 FILE: 629-08-fh

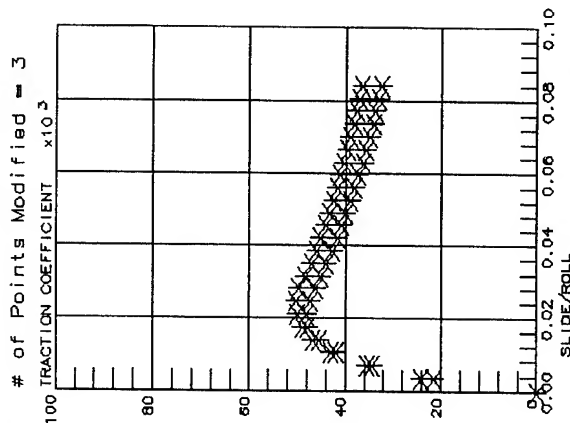
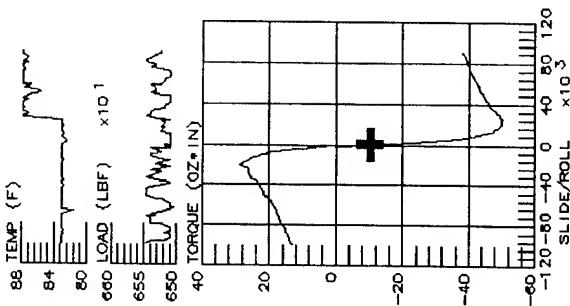
FILE: 628-08-fhi

BN 90-629	Krytox	143ab
80F	7639RPM	#6
	154LBF	

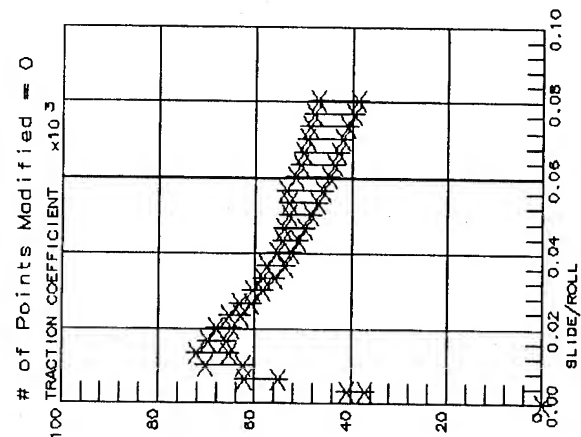
FILE: 629-08-fhi

34

# of Points Modified = 3	TRACTION COEFFICIENT $\times 10^3$
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2	1.5
3	2.0
4	2.5
5	3.0
6	3.5
7	4.0
8	4.5
9	5.0
10	5.5
11	6.0
12	6.5
13	7.0
14	7.5
15	8.0
16	8.5
17	9.0
18	9.5
19	10.0
20	10.5
21	11.0
22	11.5
23	12.0
24	12.5
25	13.0
26	13.5
27	14.0
28	14.5
29	15.0
30	15.5
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54	27.5
55	28.0
56	28.5
57	29.0
58	29.5
59	30.0
60	30.5
61	31.0
62	31.5
63	32.0
64	32.5
65	33.0
66	33.5
67	34.0
68	34.5
69	35.0
70	35.5
71	36.0
72	36.5
73	37.0
74	37.5
75	38.0
76	38.5
77	39.0
78	39.5
79	40.0
80	40.5
81	41.0
82	41.5
83	42.0
84	42.5
85	43.0
86	43.5
87	44.0
88	44.5
89	45.0
90	45.5
91	46.0
92	46.5
93	47.0
94	47.5
95	48.0
96	48.5
97	49.0
98	49.5
99	50.0
100	50.5



of Points Modified = 0



BN 80F	BN 90-629	Krytox	143ab
	20LBF	10186RPM	#7

FILE: 629-08-fhi

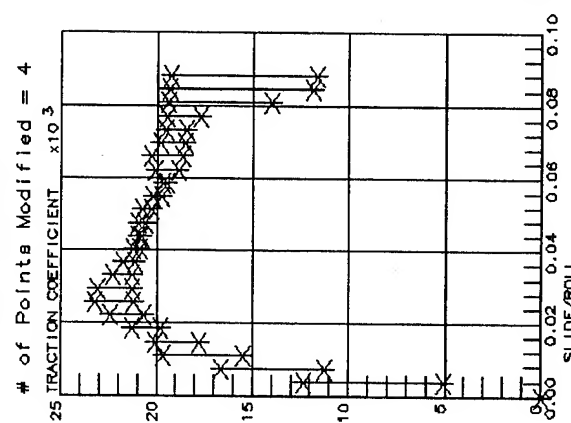
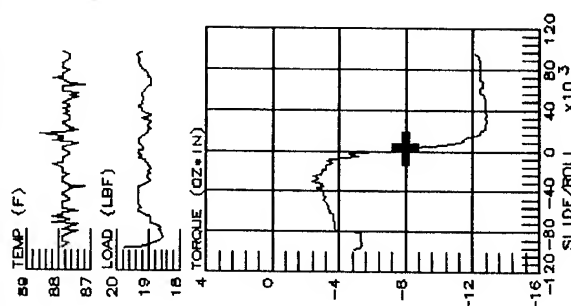
八卷

BN	90-629	Krytox	143ab
80F	86LBF	10186RPM	#8

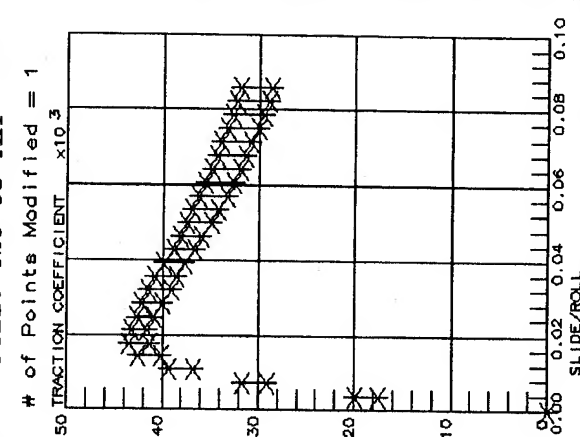
FILE: 629-08-141

白

of Points Modified = 4



of Points Modified = 1



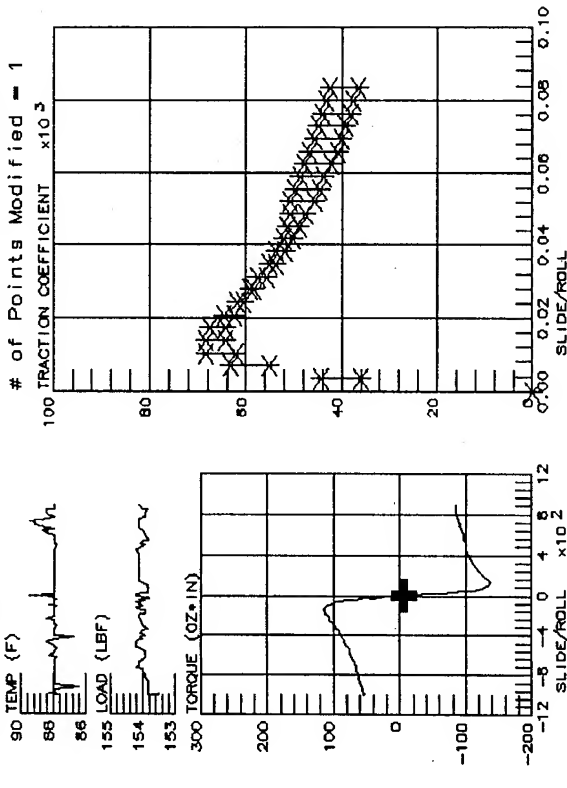
TRACTION DATA

BN 90-629 Krytox 143ab
80F 164LBF 1018RPM #9

FILE: 629-08-fh1

#9

of Points Modified = 1

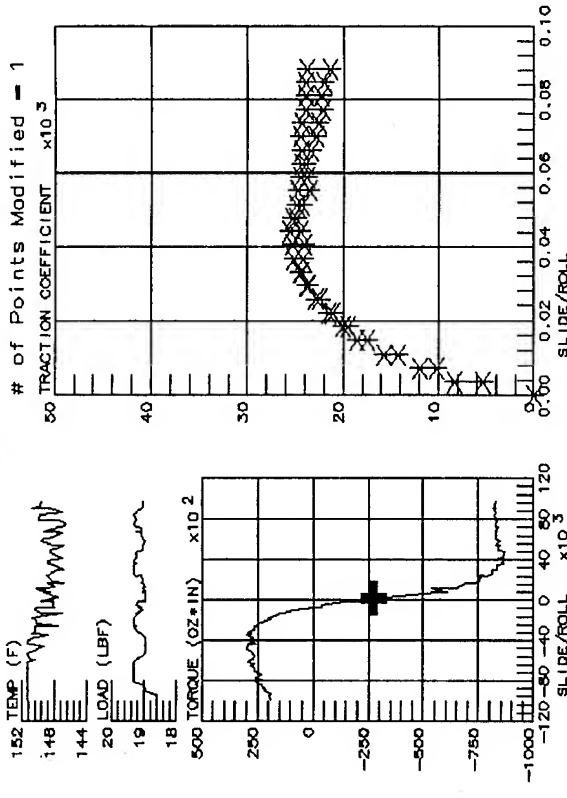


BN 90-629 Krytox 143ab
160F 20LBF 5093RPM #1

FILE: 629-15-fh1

#10

of Points Modified = 1

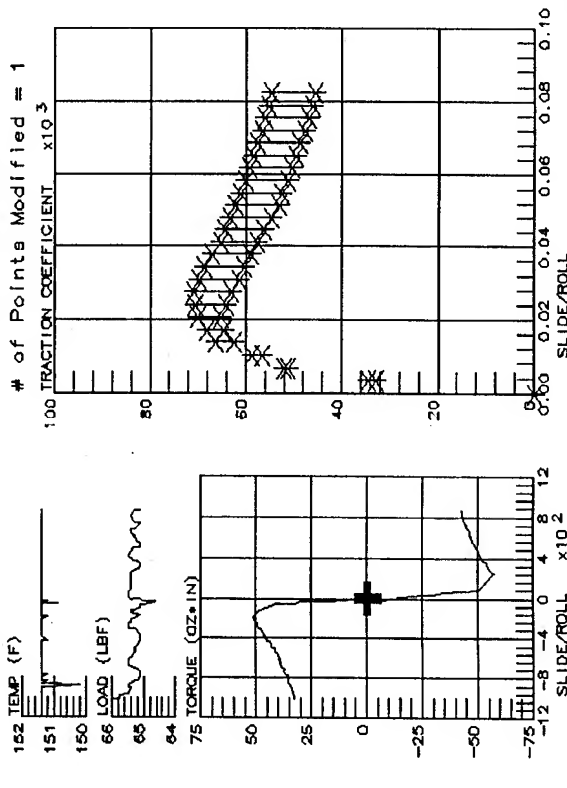


BN 90-629 Krytox 143ab
150F 66LBF 5093RPM #2

FILE: 629-15-fh1

#11

of Points Modified = 1

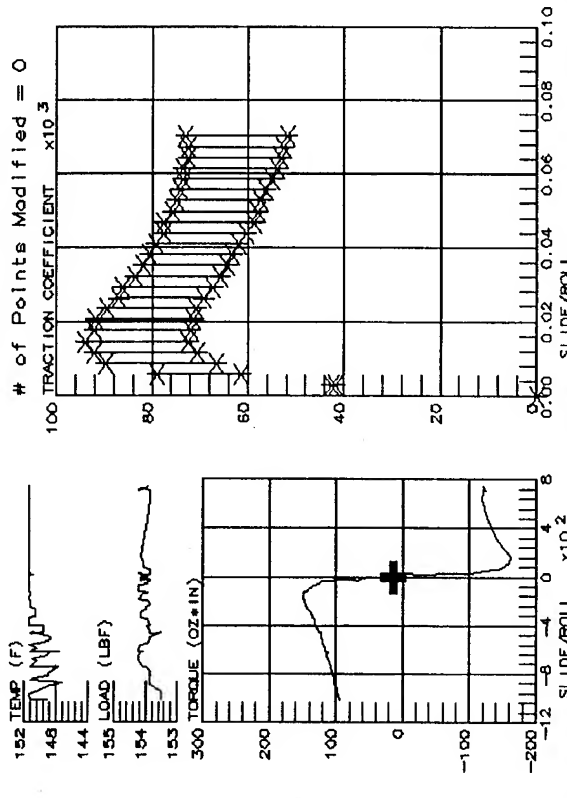


BN 90-629 Krytox 143ab
150F 154LBF 5093RPM #3

FILE: 629-15-fh1

#12

of Points Modified = 0



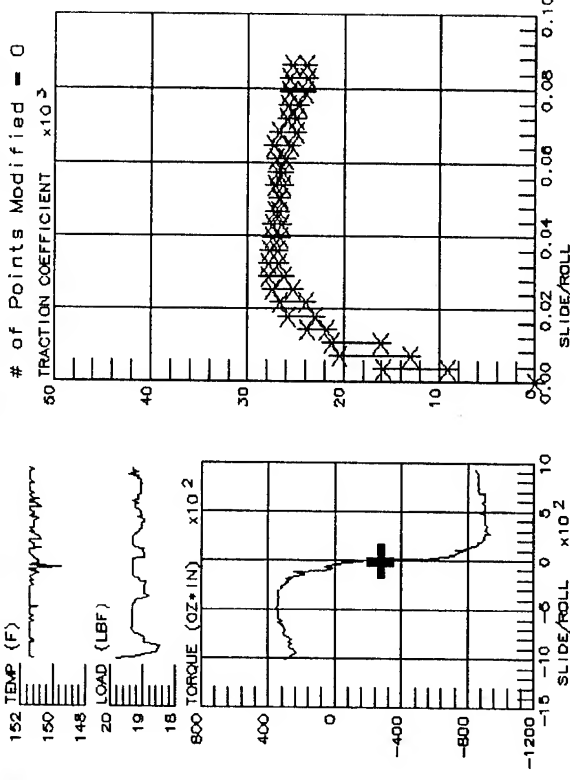
TRACTION DATA

BN 90-629 Krytox 143ab
150F 20LBF 7639RPM #4

FILE: 629-15-fh1

#13

of Points Modified = 0

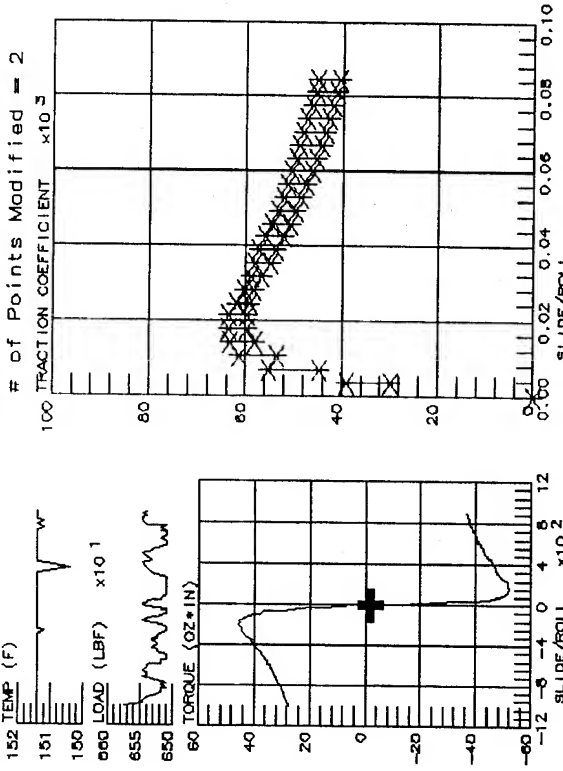


BN 90-629 Krytox 143ab
150F 66LBF 7639RPM #5

FILE: 629-15-fh1

#14

of Points Modified = 2

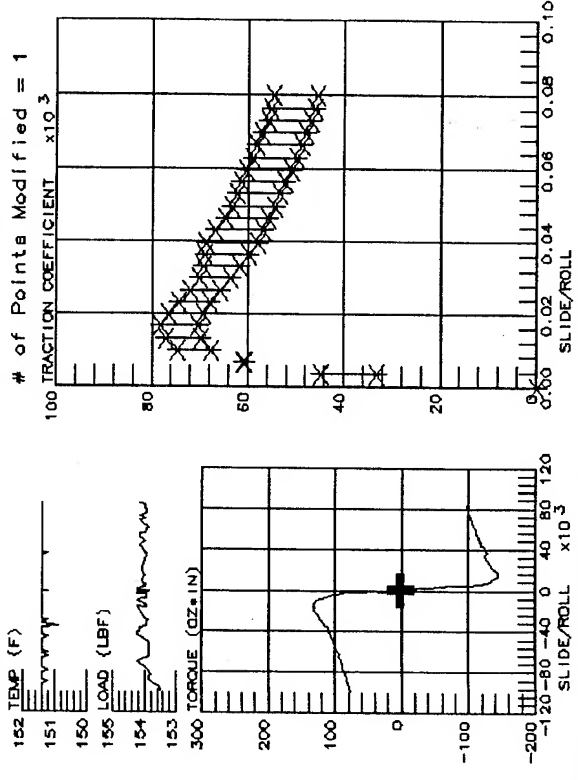


BN 90-629 Krytox 143ab
150F 154LBF 7639RPM #6

FILE: 629-15-fh1

#15

of Points Modified = 1

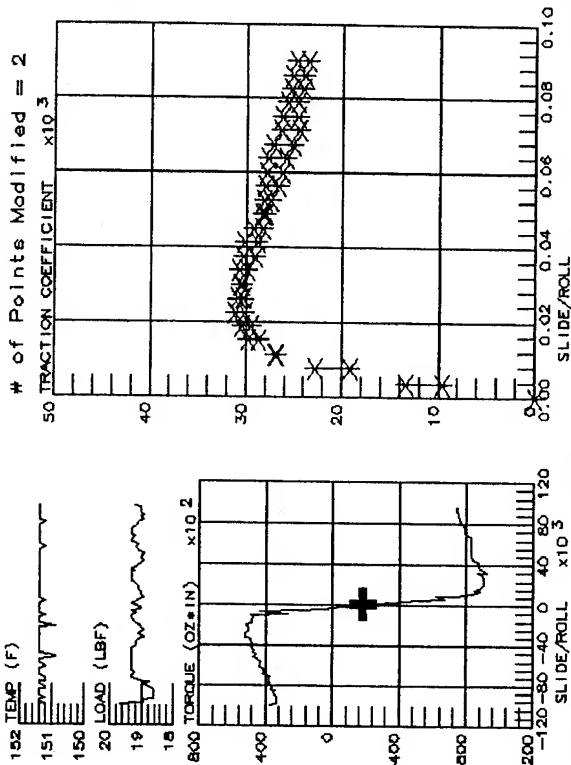


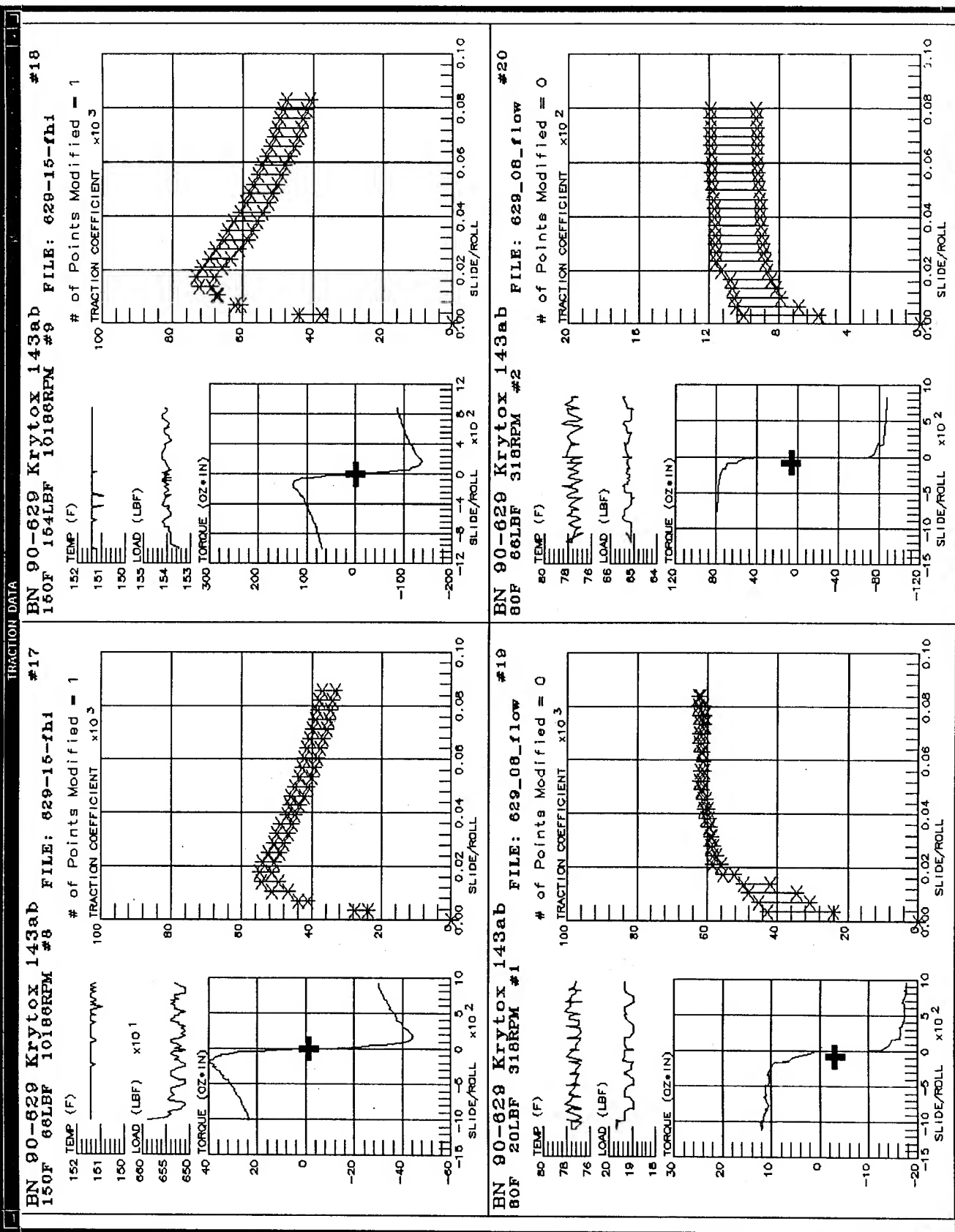
BN 90-629 Krytox 143ab
150F 20LBF 1016RPM #7

FILE: 629-15-fh1

#16

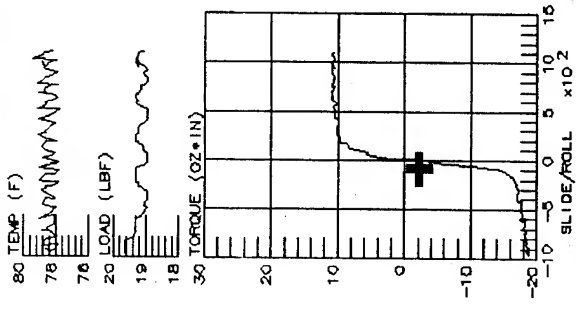
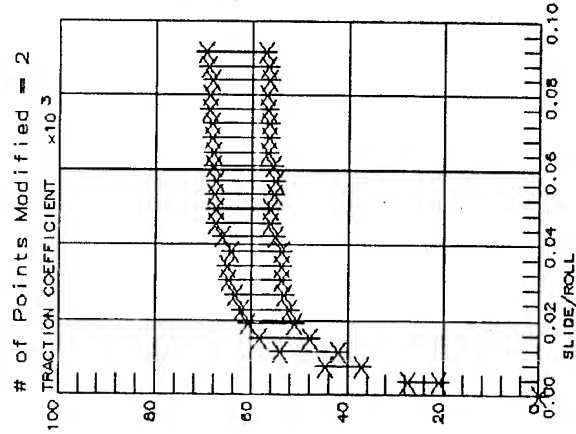
of Points Modified = 2



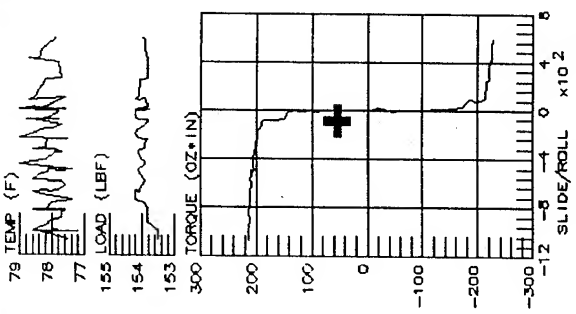
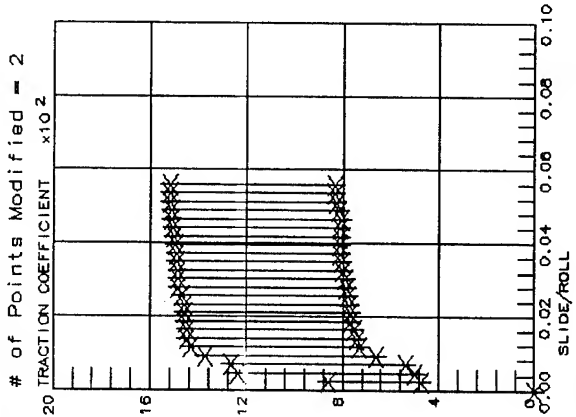


TRACTION DATA

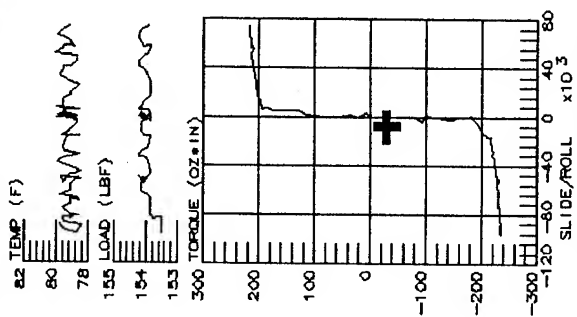
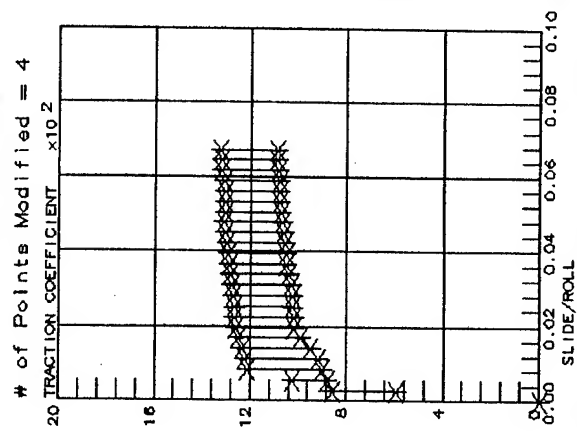
BN 90-629 Krytox 143ab
80F 20LBF 318RPM #4 FILE: 629_08_flow #22



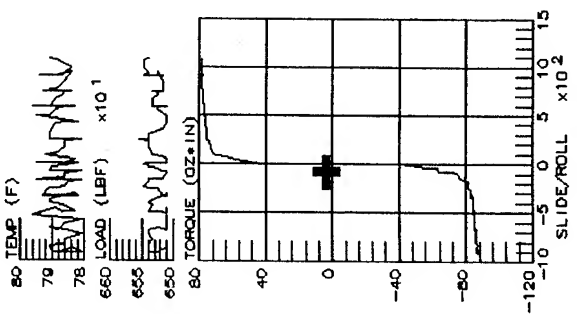
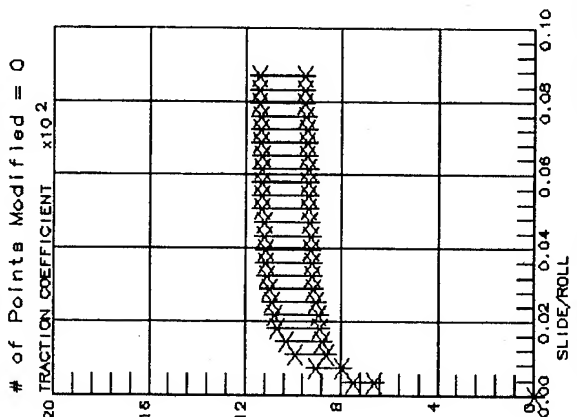
BN 90-629 Krytox 143ab
80F 154LBF 318RPM #3 FILE: 629_08_flow #21



BN 90-629 Krytox 143ab
80F 154LBF 318RPM #6 FILE: 629_08_flow #24



BN 90-629 Krytox 143ab
80F 66LBF 318RPM #5 FILE: 629_08_flow #23



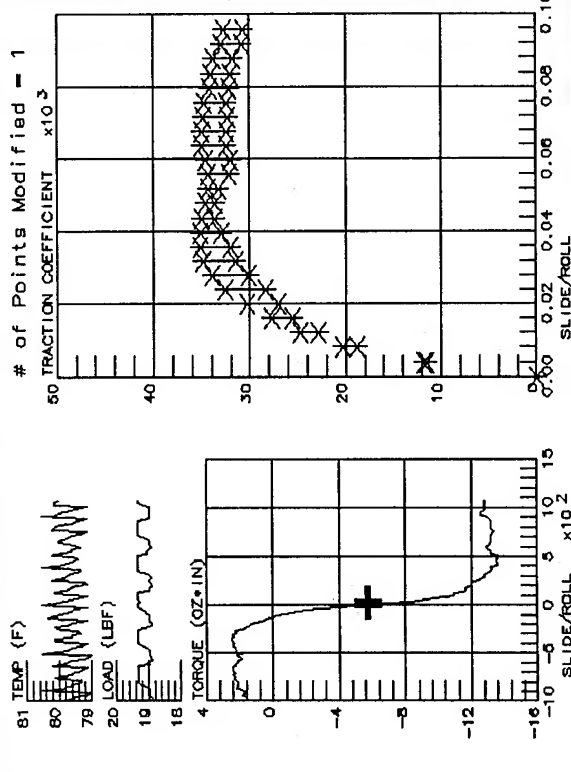
TRACER DATA

BN 90-629 Krytox 143ab
80F 20LBF 1273RPM #7

FILE: 629_08_flow

#25

of Points Modified = 1

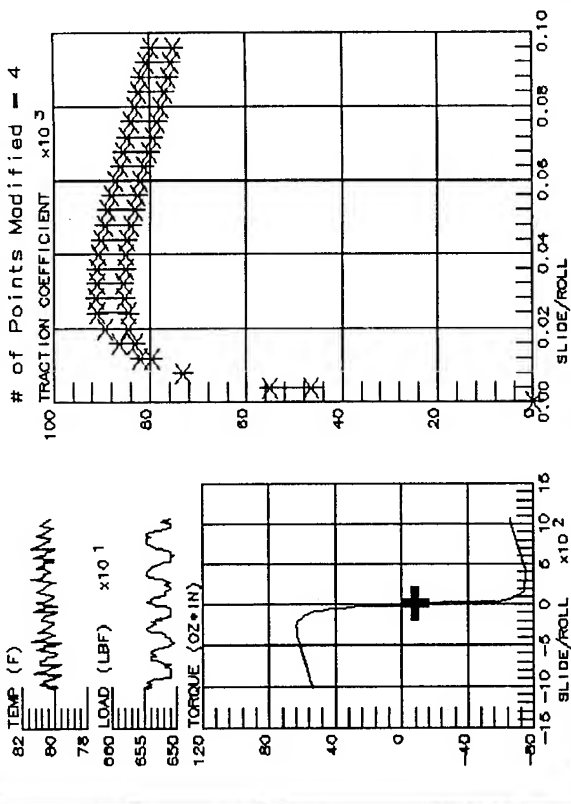


BN 90-629 Krytox 143ab
80F 86LBF 1273RPM #8

FILE: 629_08_flow

#26

of Points Modified = 4

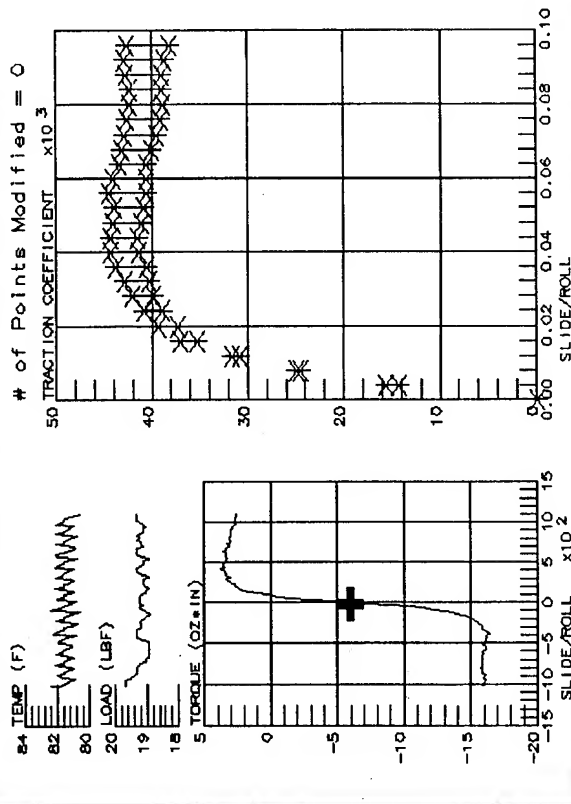


BN 90-629 Krytox 143ab
80F 20LBF 1273RPM #10

FILE: 629_08_flow

#28

of Points Modified = 0

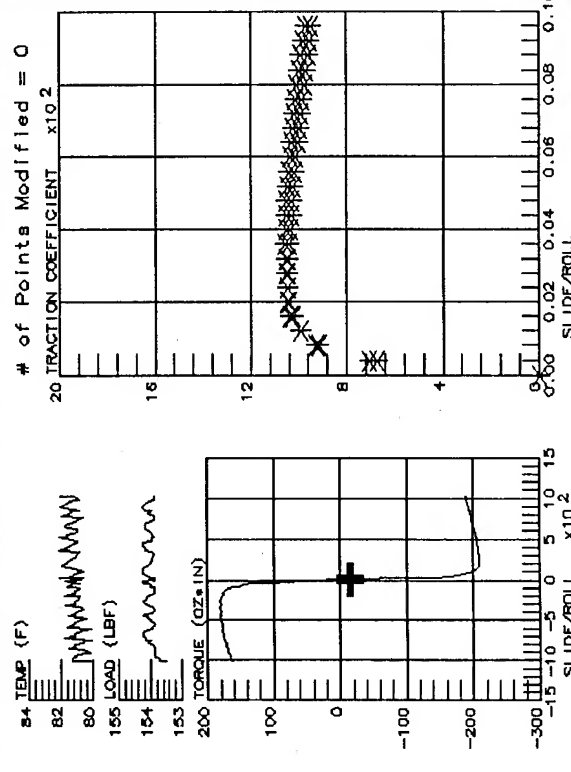


BN 90-629 Krytox 143ab
80F 154LBF 1273RPM #9

FILE: 629_08_flow

#27

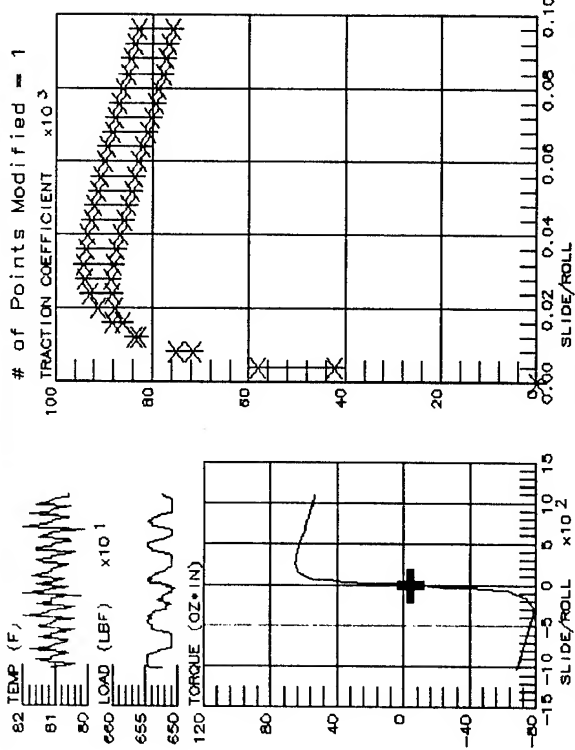
of Points Modified = 0



TRACTION DATA

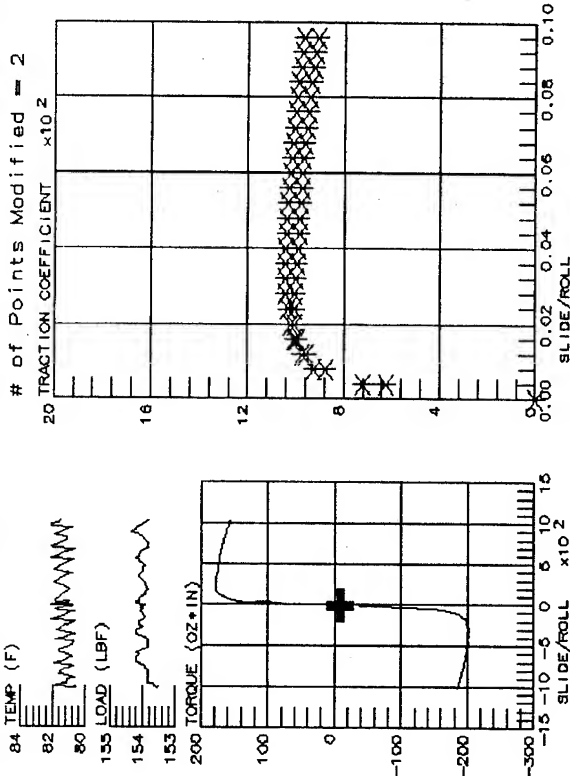
BN 90-629 Krytox 143ab #29
80F 66LBF 1273RPM #11 FILE: 629_08_flow

of Points Modified = 1



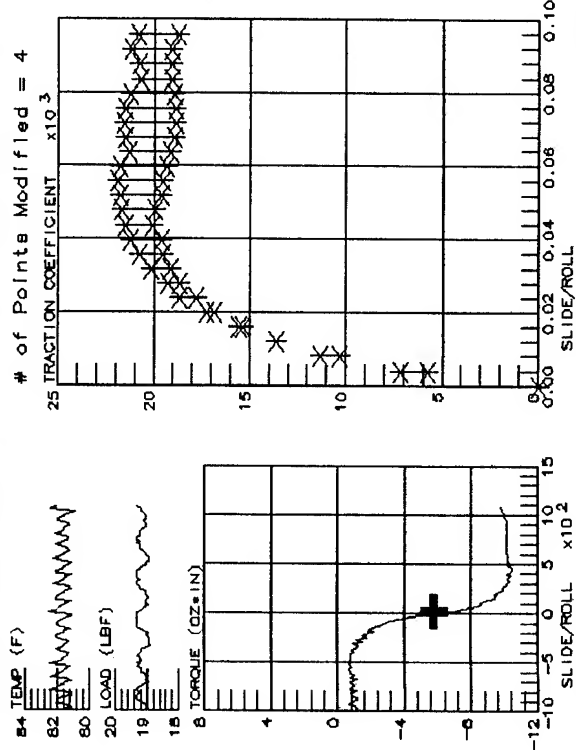
BN 90-629 Krytox 143ab #30
80F 154LBF 1273RPM #12 FILE: 629_08_flow

of Points Modified = 2



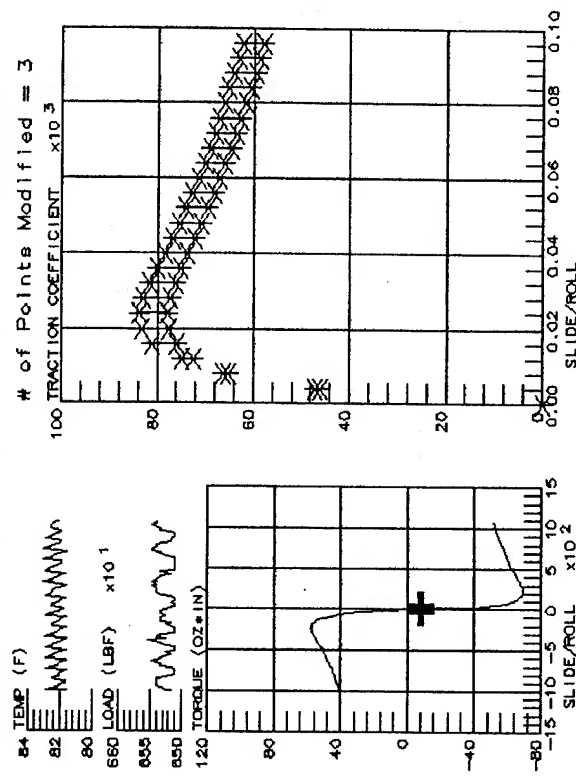
BN 90-629 Krytox 143ab #31
80F 20LBF 2548RPM #13 FILE: 629_08_flow

of Points Modified = 4



BN 90-629 Krytox 143ab #32
80F 86LBF 2548RPM #14 FILE: 629_08_flow

of Points Modified = 3

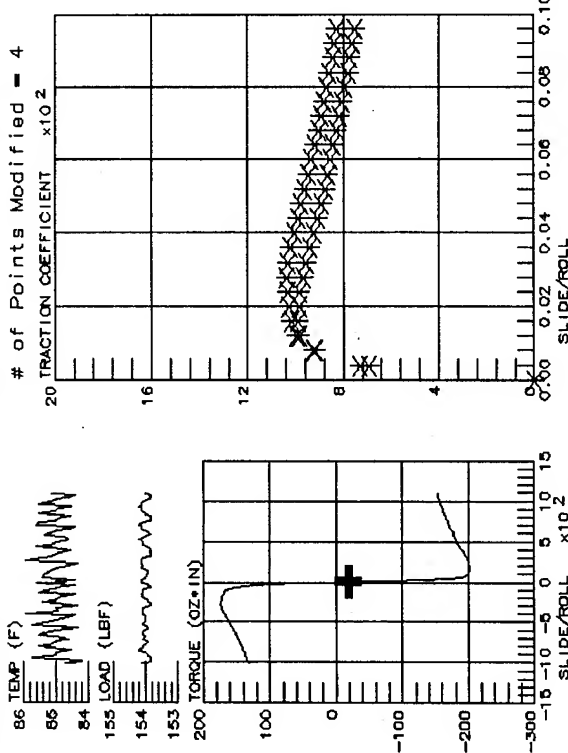


TRACTION DATA

BN 90-629 Krytox 143ab #33
80F 154LBF 2546RPM #15

FILE: 629_08_flow

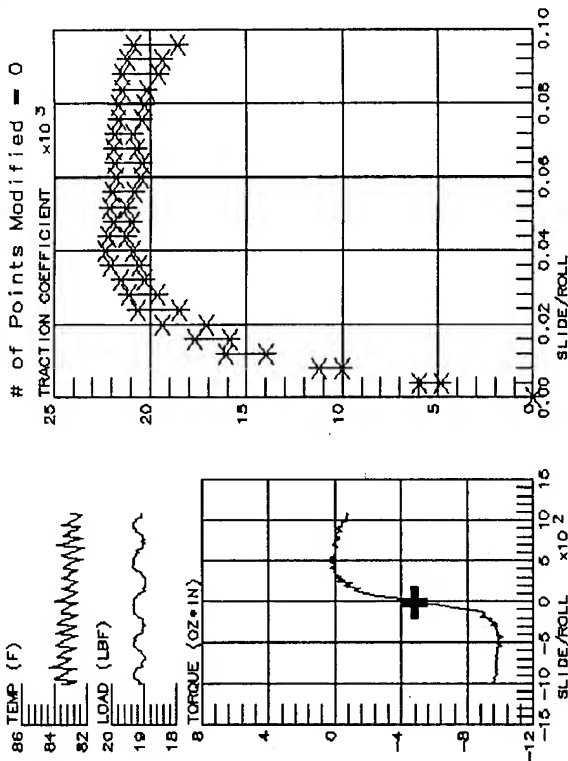
of Points Modified = 4



BN 90-629 Krytox 143ab #34
80F 20LBF 2546RPM #16

FILE: 629_08_flow

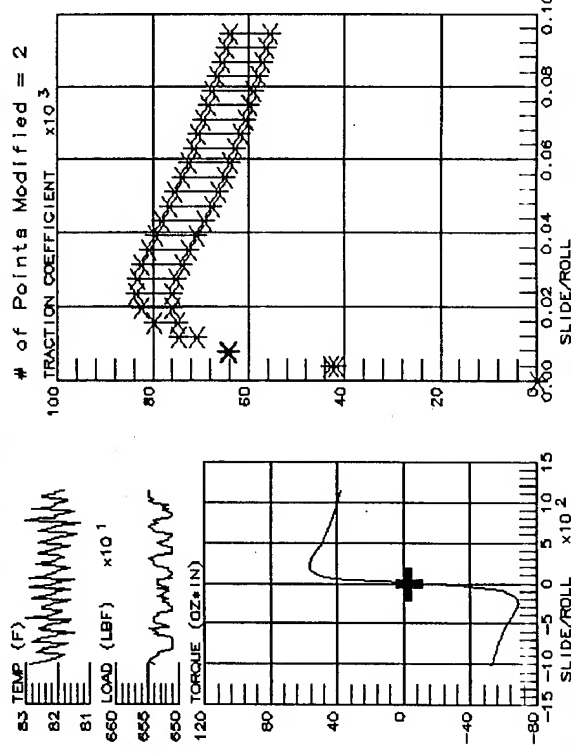
of Points Modified = 0



BN 90-629 Krytox 143ab #35
80F 66LBF 2546RPM #17

FILE: 629_08_flow

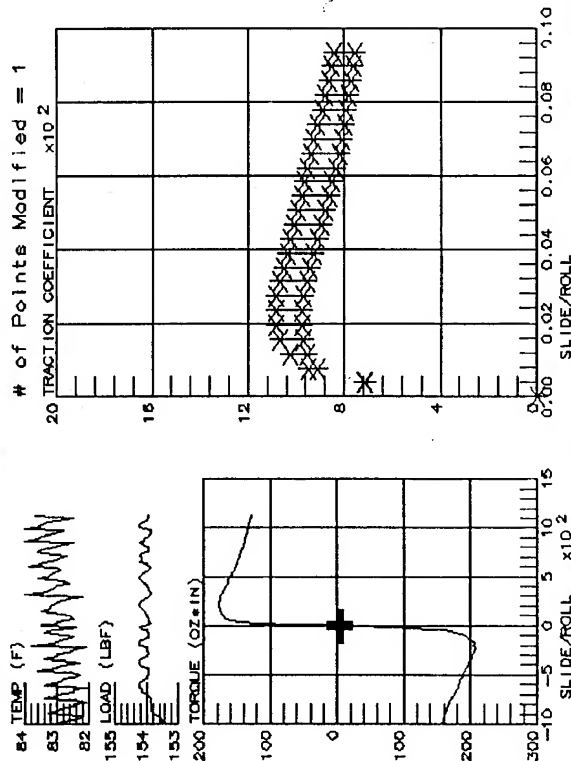
of Points Modified = 2



BN 90-629 Krytox 143ab #36
80F 154LBF 2546RPM #18

FILE: 629_08_flow

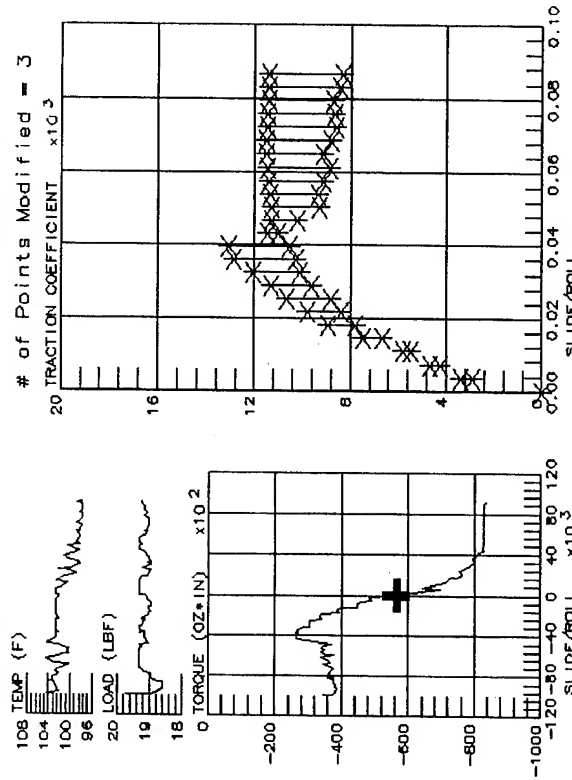
of Points Modified = 1



TRACTION DATA

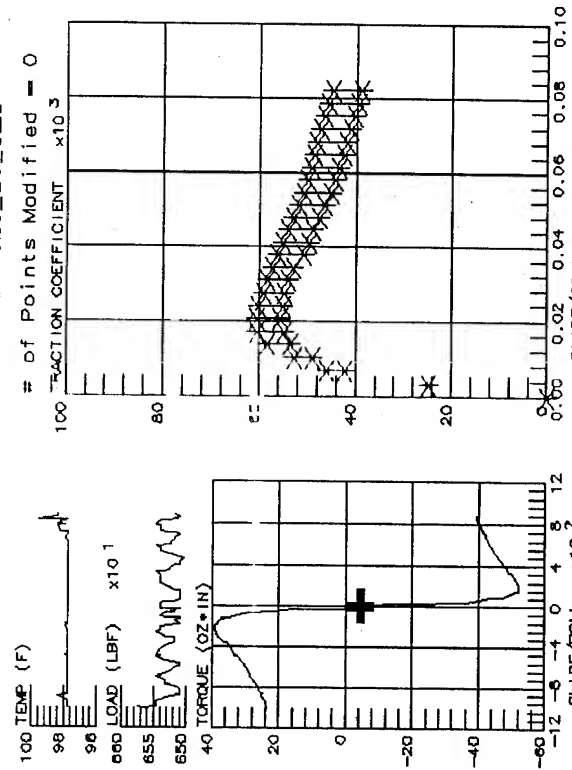
BN 90-629 Krytox 143ab #37
100F 20LBF 5093RPM #1 FILE: 629_10_fh1

of Points Modified = 3



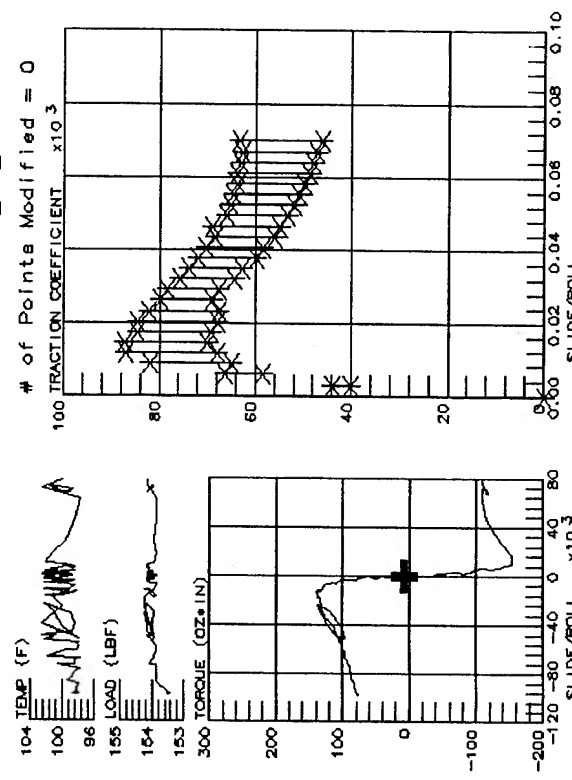
BN 90-629 Krytox 143ab #38
100F 66LBF 5093RPM #2 FILE: 629_10_fh1

of Points Modified = 0



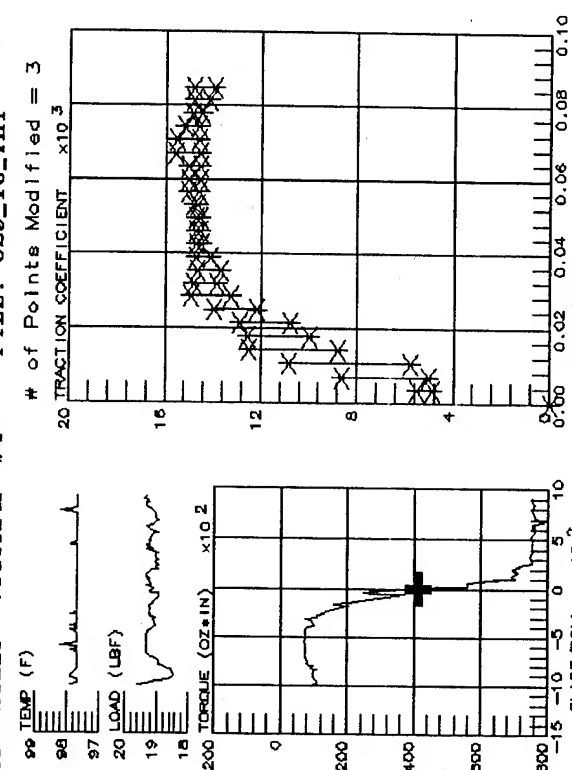
BN 90-629 Krytox 143ab #39
100F 154LBF 5093RPM #3 FILE: 629_10_fh1

of Points Modified = 0



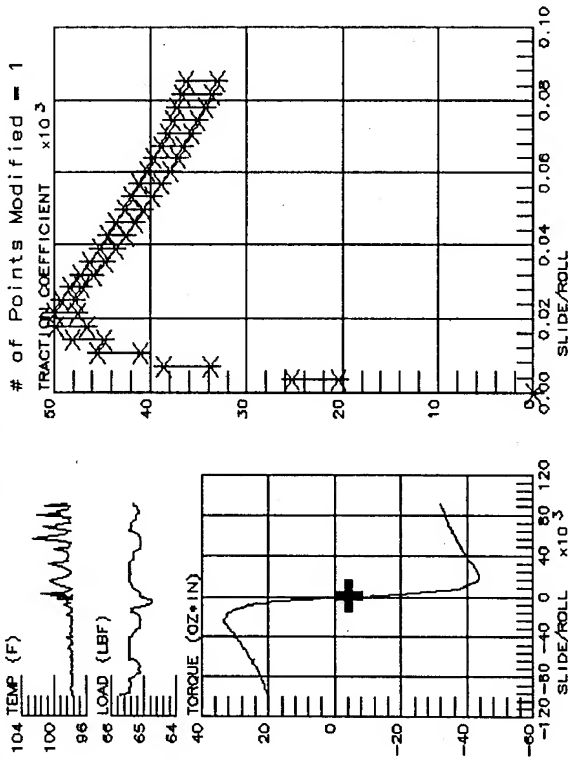
BN 90-629 Krytox 143ab #40
100F 20LBF 7639RPM #4 FILE: 629_10_fh1

of Points Modified = 3

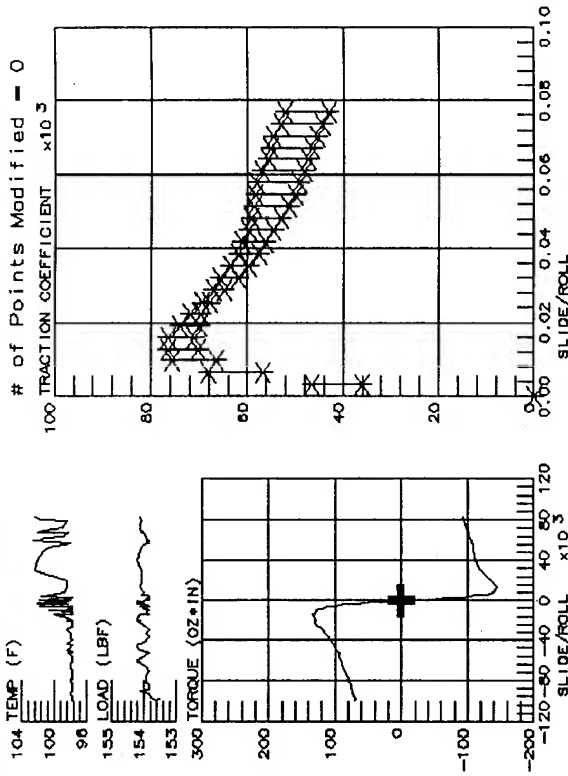


TRACTION DATA

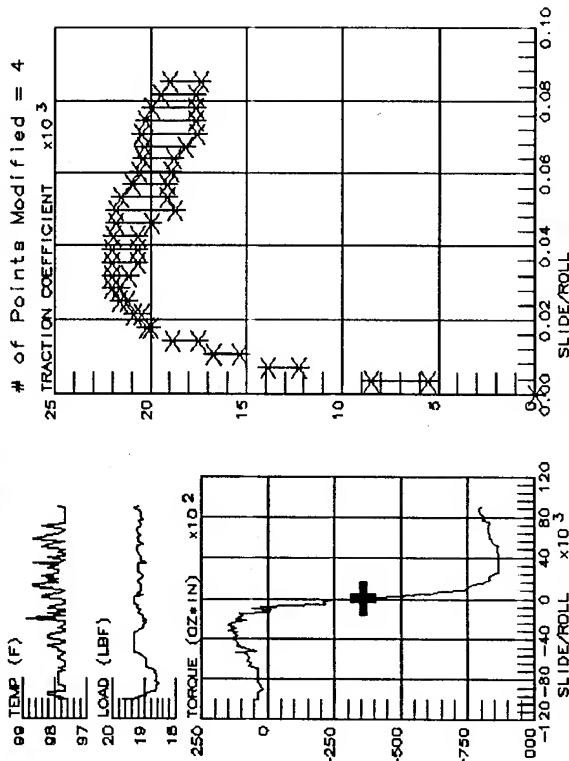
BN 90-629 Krytox 143ab #41
100F 68LBF 7639RPM #5 FILE: 629_10_fhi



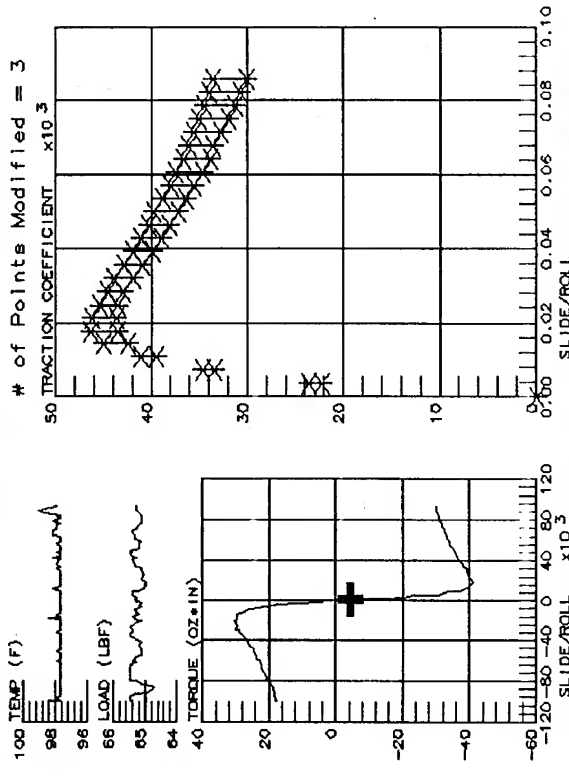
BN 90-629 Krytox 143ab #42
100F 154LBF 7639RPM #6 FILE: 629_10_fhi



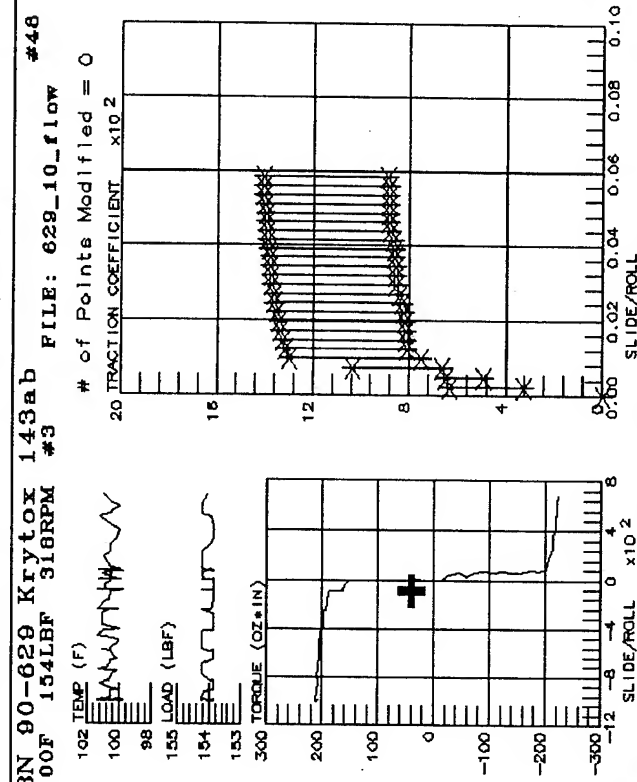
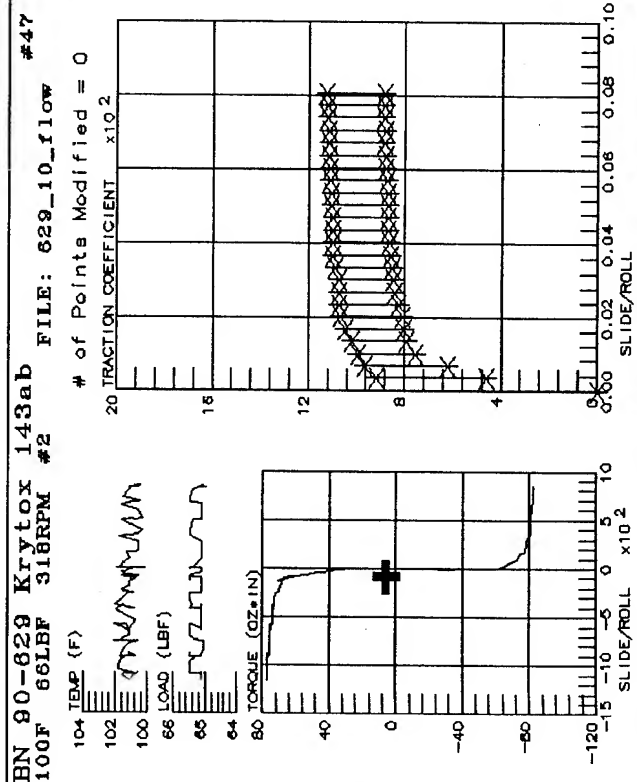
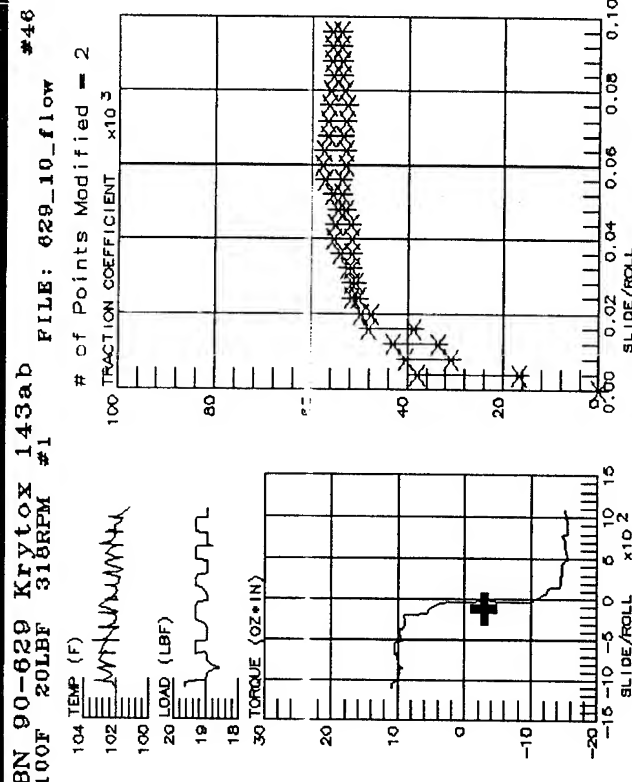
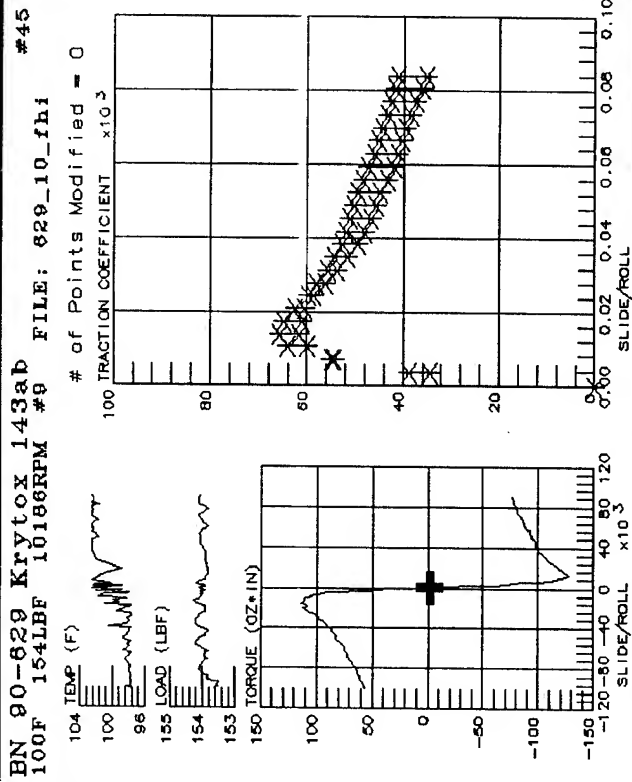
BN 90-629 Krytox 143ab #43
100F 20LBF 10186RPM #7 FILE: 629_10_fhi



BN 90-629 Krytox 143ab #44
100F 68LBF 10186RPM #8 FILE: 629_10_fhi



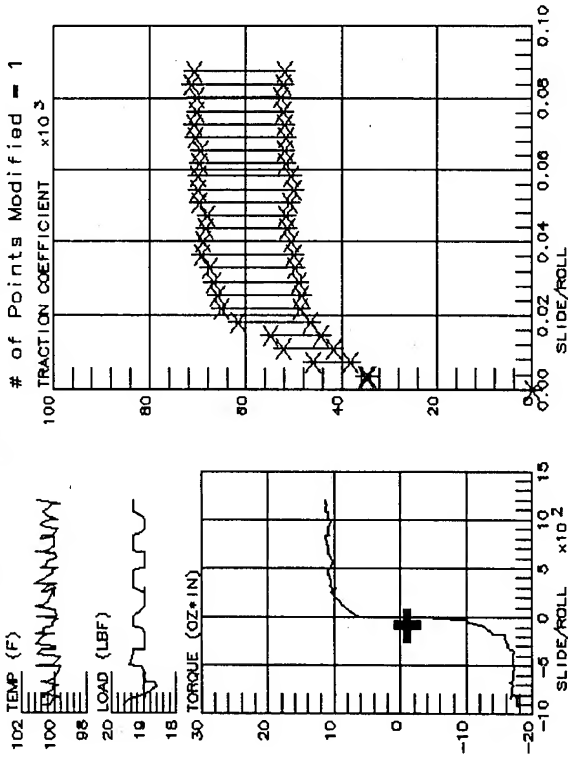
TRACTION DATA



TRACTION DATA

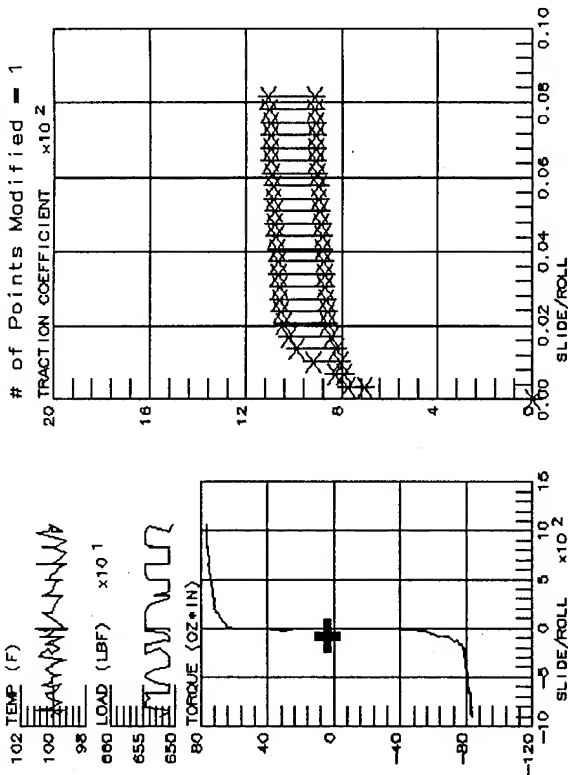
BN 90-629 Krytox 143ab #4
100F 20LBF 318RPM FILE: 629_10_flow

of Points Modified = 1



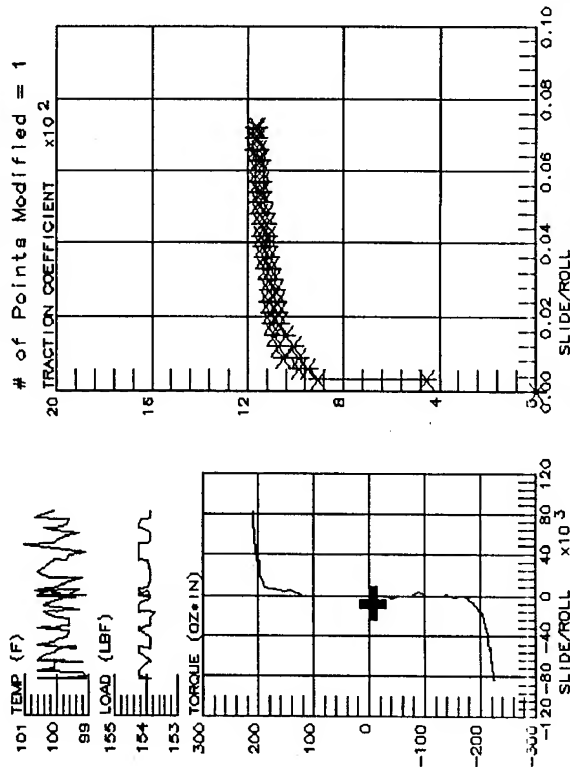
BN 90-629 Krytox 143ab #5
100F 66LBF 318RPM FILE: 629_10_flow

of Points Modified = 1



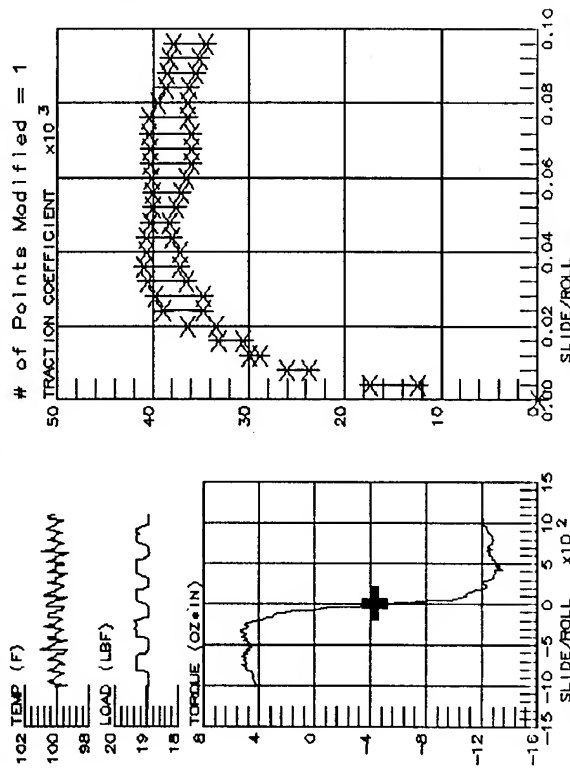
BN 90-629 Krytox 143ab #6
100F 154LBF 318RPM FILE: 629_10_flow

of Points Modified = 1

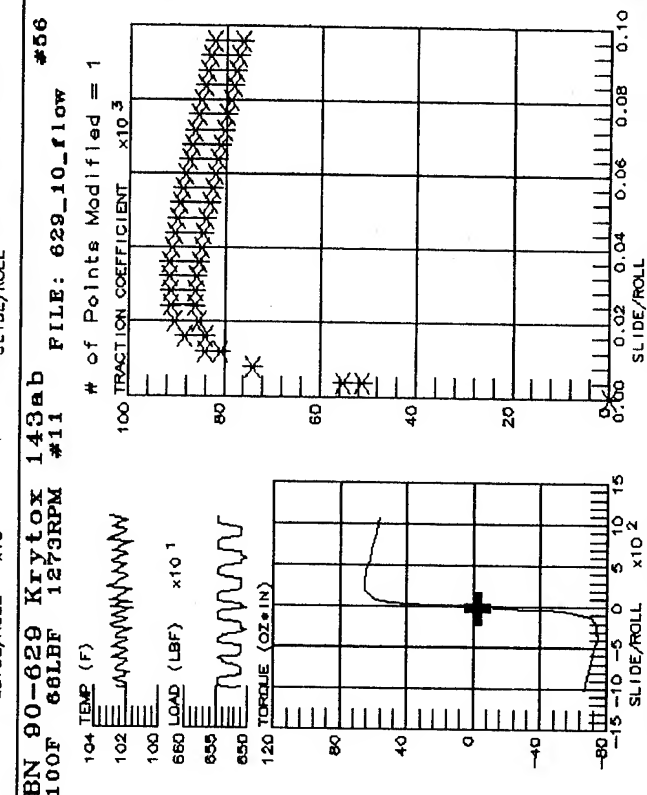
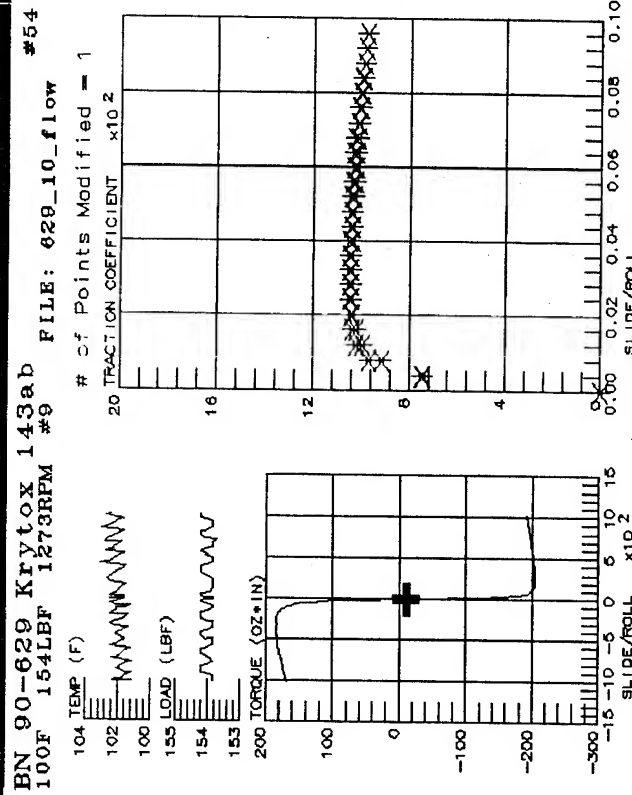
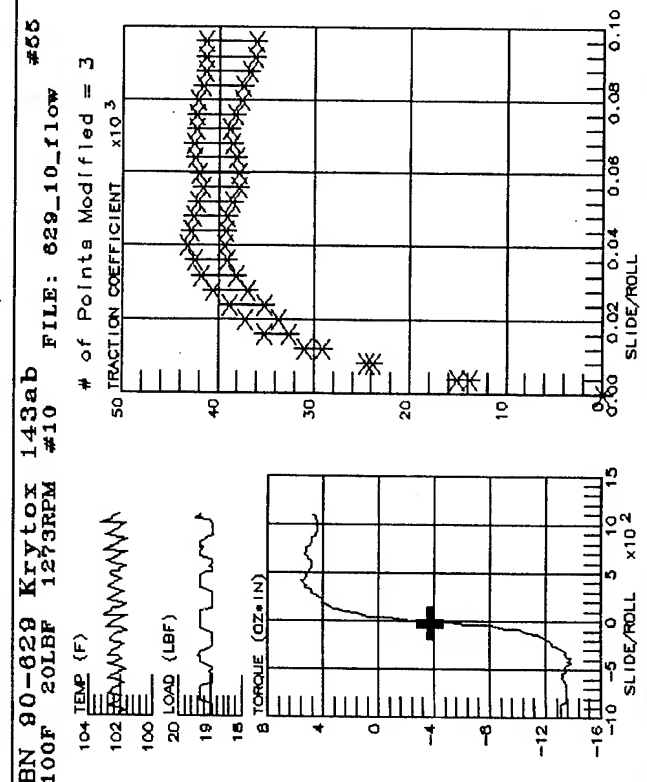
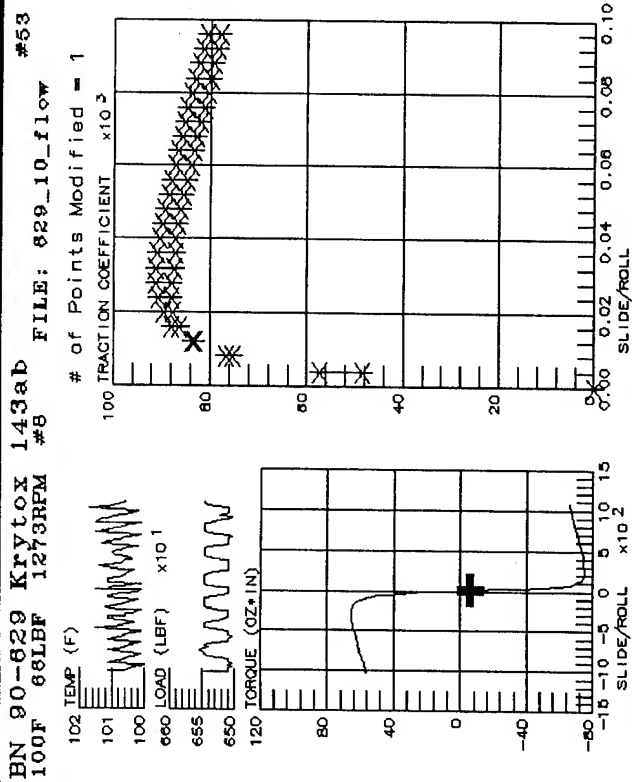


BN 90-629 Krytox 143ab #7
100F 20LBF 1273RPM FILE: 629_10_flow

of Points Modified = 1



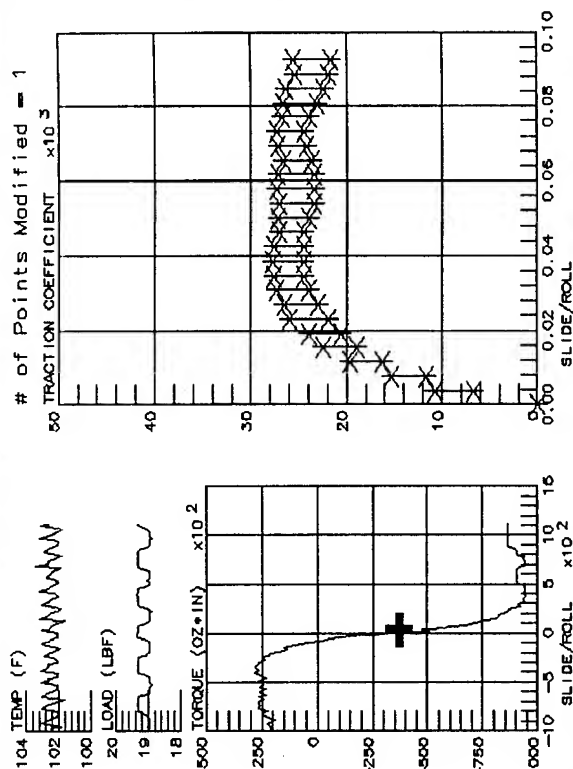
TRACTION DATA



TRACTION DATA

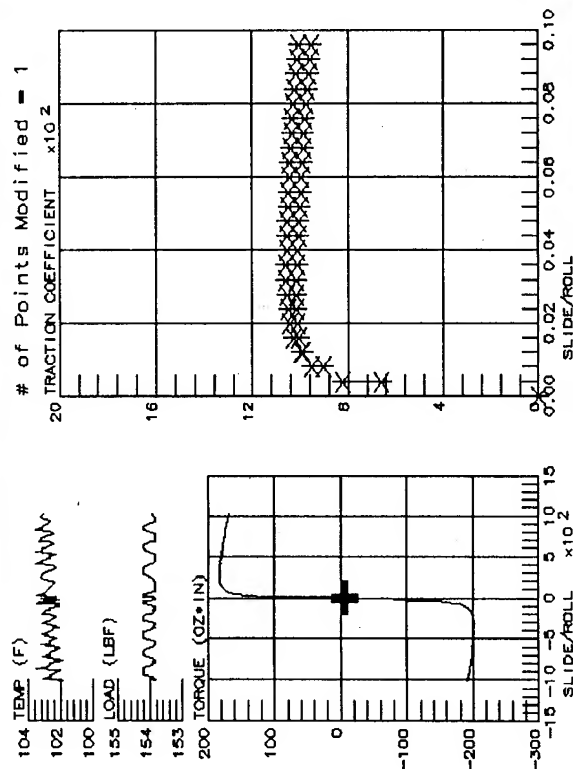
BN 90-629 Krytox 143ab
100F 20LBF 2546RPM #13 FILE: 629-10_flow

of Points Modified = 1



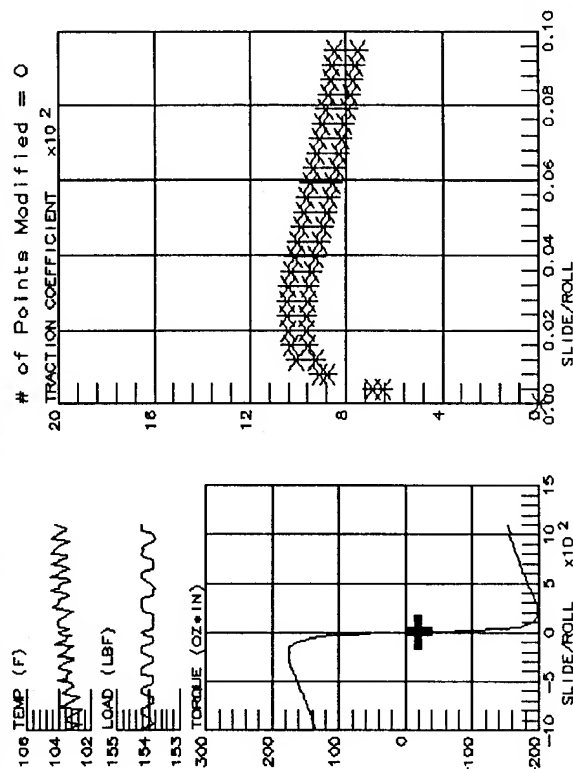
BN 90-629 Krytox 143ab
100F 154LBF 1273RPM #12 FILE: 629-10_flow

of Points Modified = 1



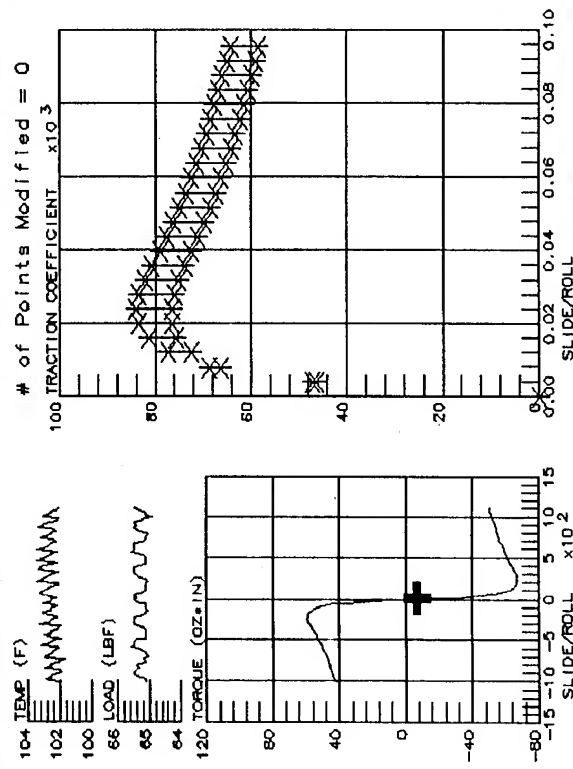
BN 90-629 Krytox 143ab
100F 154LBF 2546RPM #15 FILE: 629-10_flow

of Points Modified = 0



BN 90-629 Krytox 143ab
100F 86LBF 2546RPM #14 FILE: 629-10_flow

of Points Modified = 0



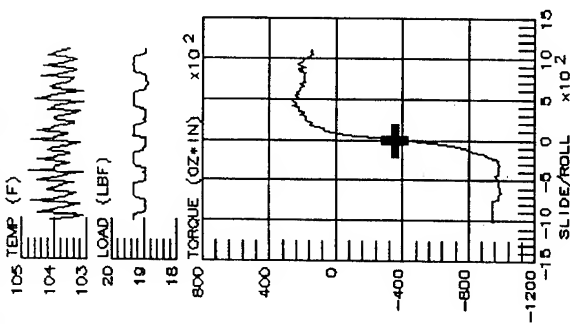
TRACTION DATA

BN 90-629 Krytox 143ab
100F 20LBF 2546RPM #16

FILE: 629_10_flow

#61

of Points Modified = 2

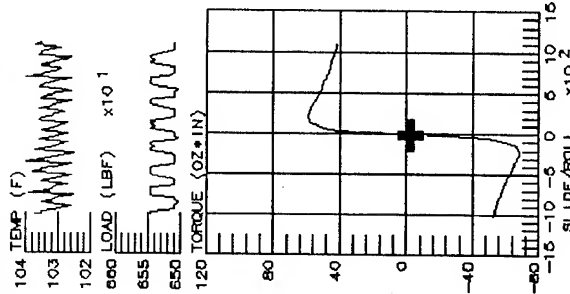


BN 90-629 Krytox 143ab
100F 66LBF 2546RPM #17

FILE: 629_10_flow

#62

of Points Modified = 1

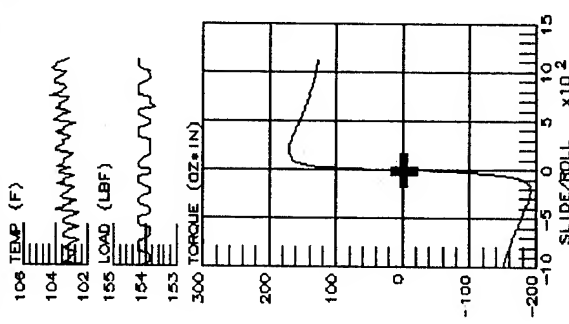


BN 90-629 Krytox 143ab
100F 154LBF 2546RPM #18

FILE: 629_10_flow

#63

of Points Modified = 1

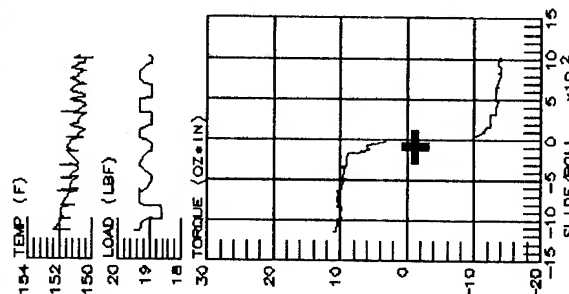


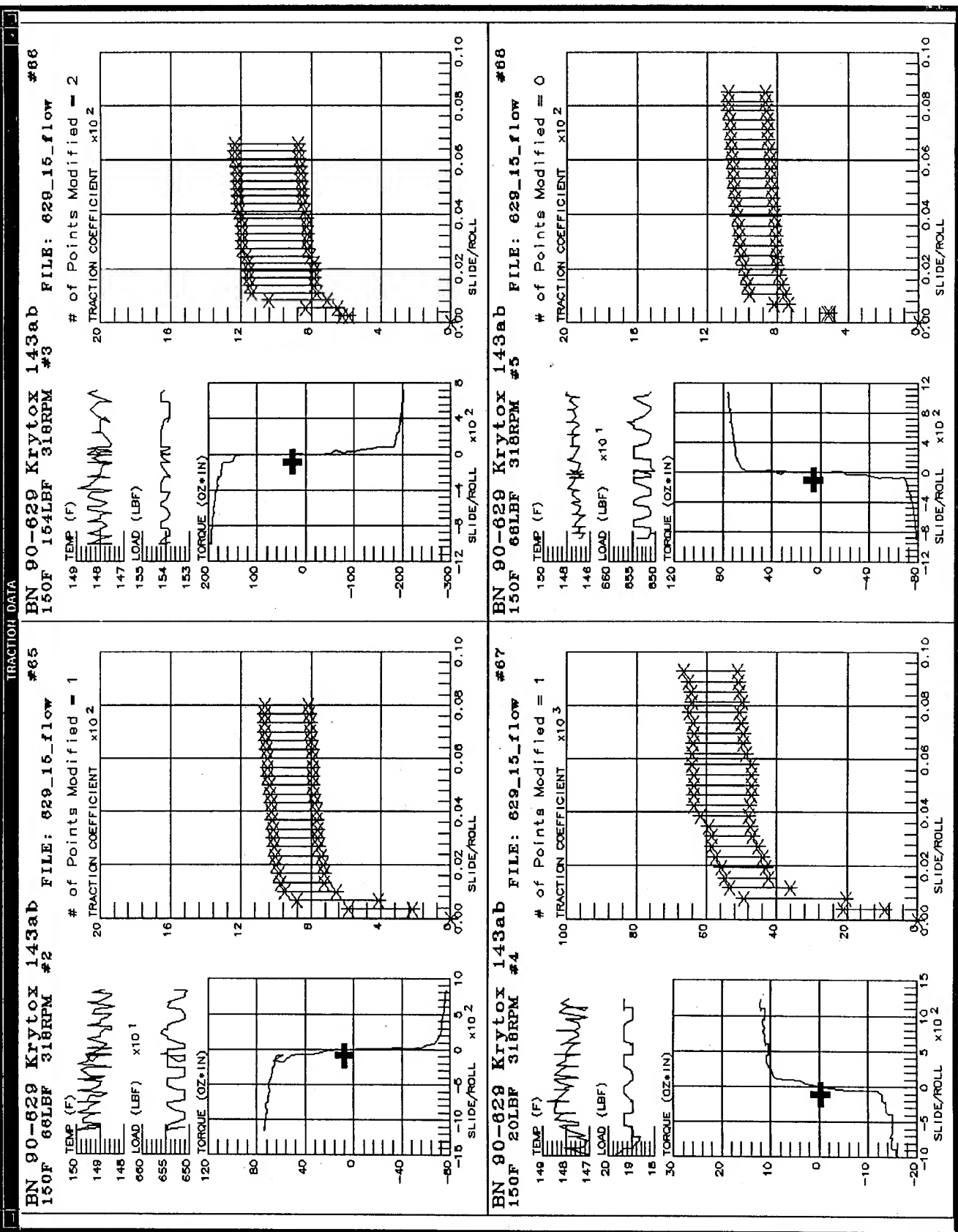
BN 90-629 Krytox 143ab
150F 20LBF 318RPM #1

FILE: 629_15_flow

#64

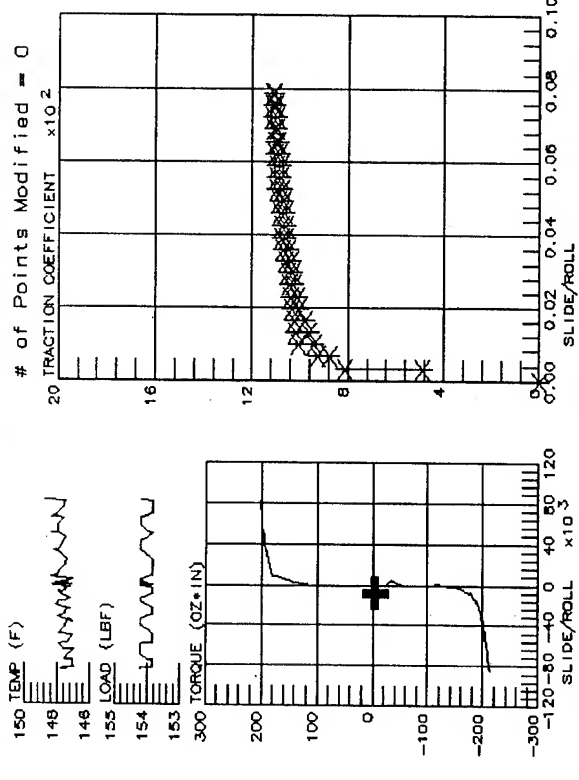
of Points Modified = 0



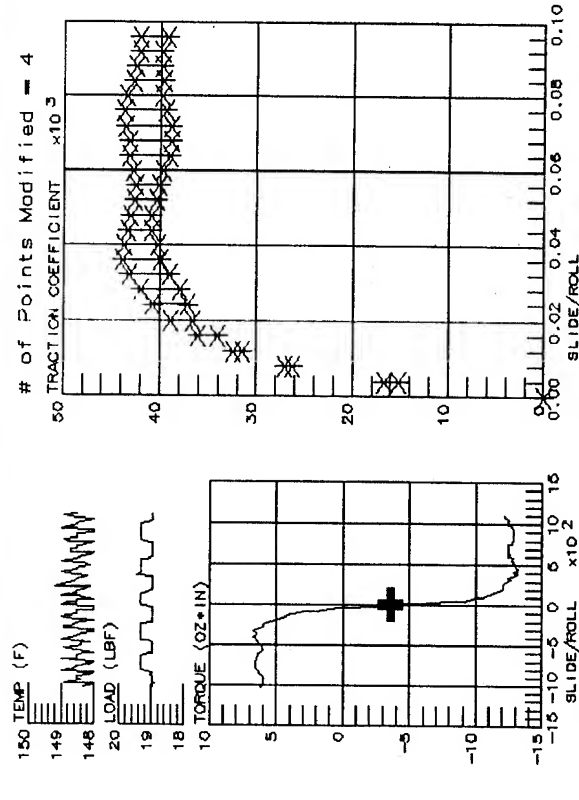


TRACION DATA

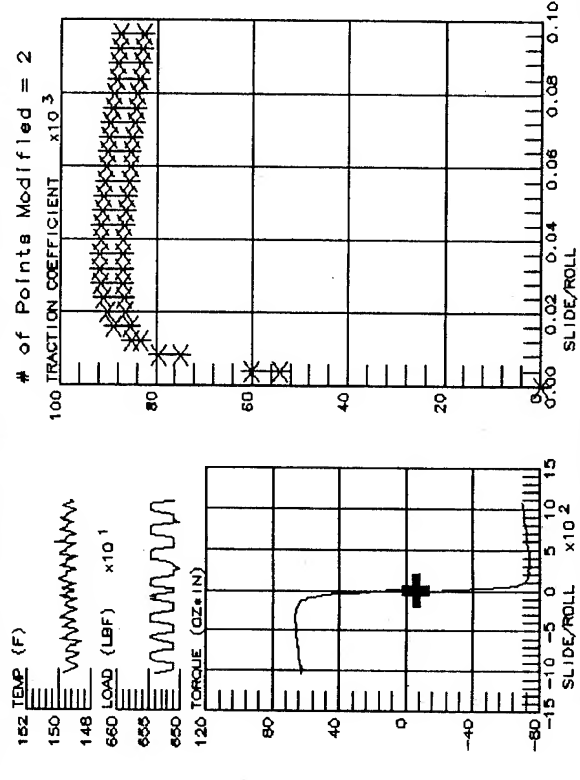
BN 90-629 Krytox 143ab #69
150F 154LBF 1273RPM #8 FILE: 629_15_flow



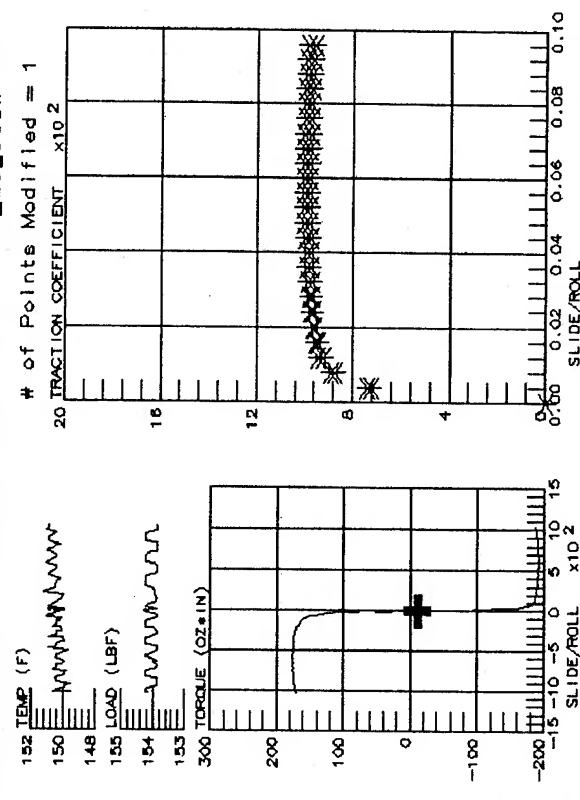
BN 90-629 Krytox 143ab #70
150F 20LBF 1273RPM #7 FILE: 629_15_flow



BN 90-629 Krytox 143ab #71
150F 86LBF 1273RPM #8 FILE: 629_15_flow

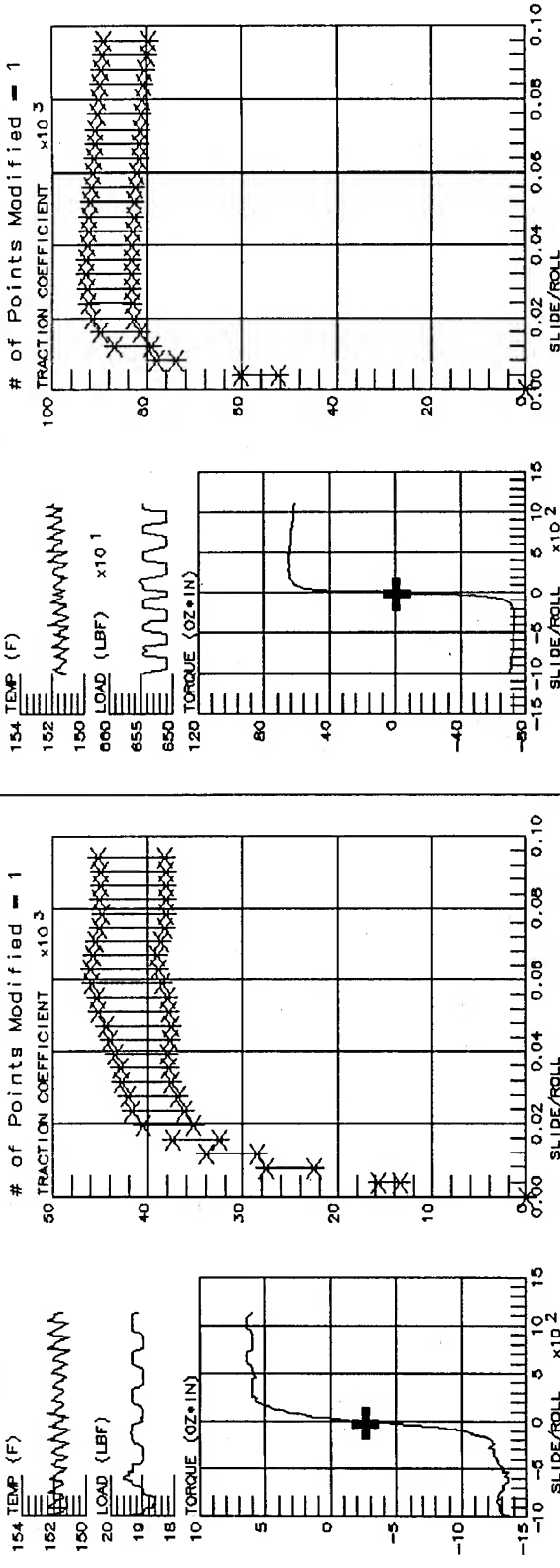


BN 90-629 Krytox 143ab #72
150F 154LBF 1273RPM #9 FILE: 629_15_flow

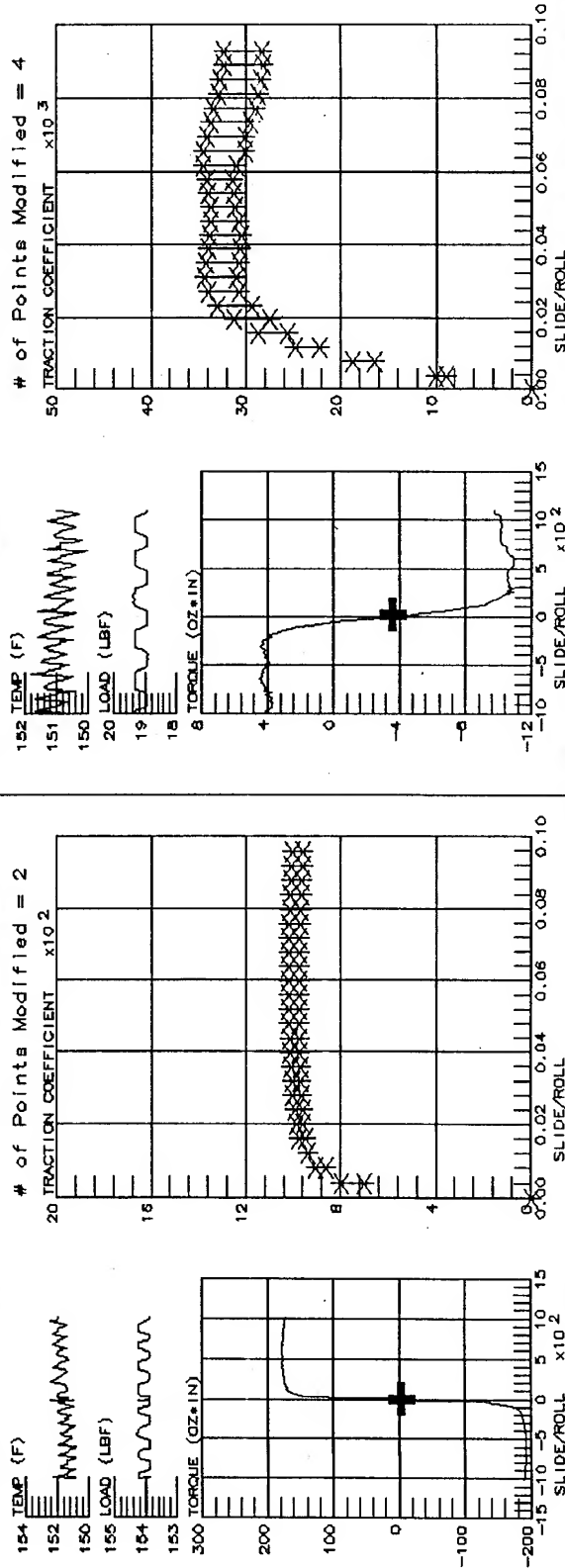


TRACTION DATA

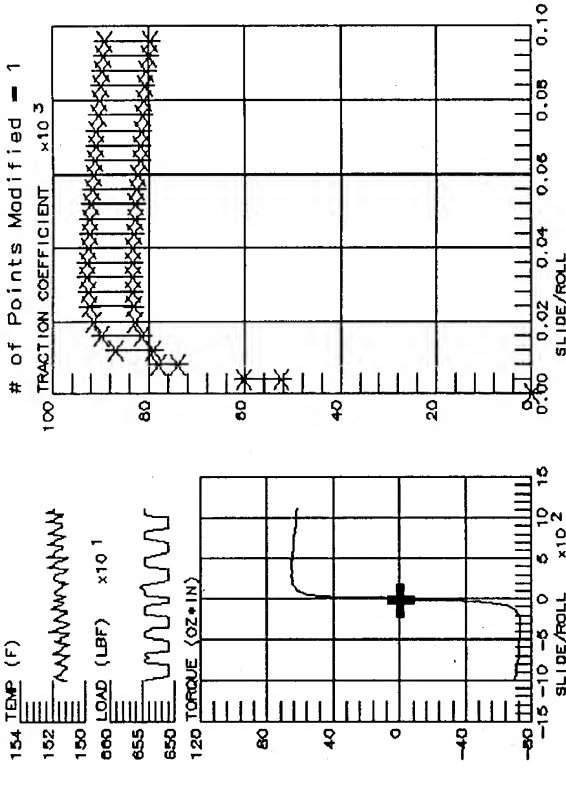
BN 90-629 Krytox 143ab #73 FILE: 629_15_flow #10
150F 20LBF 1273RPM #11



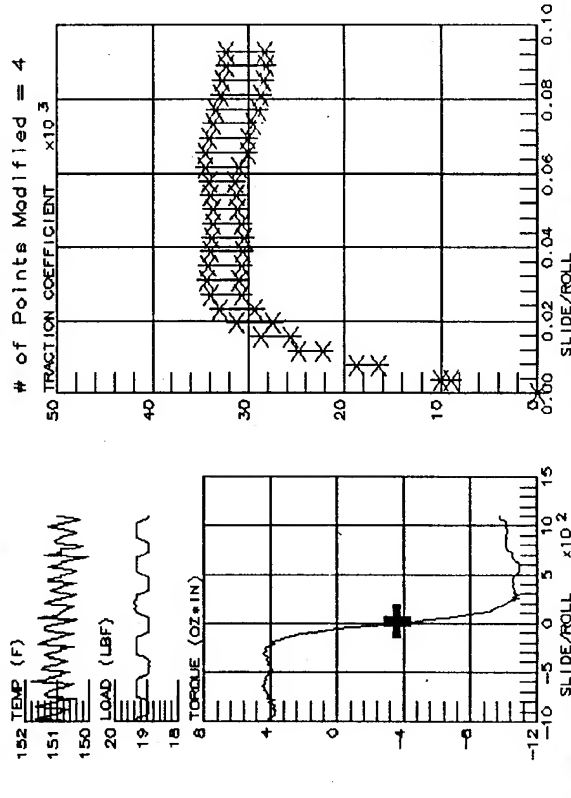
BN 90-629 Krytox 143ab #75 FILE: 629_15_flow #12
150F 154LBF 1273RPM #13



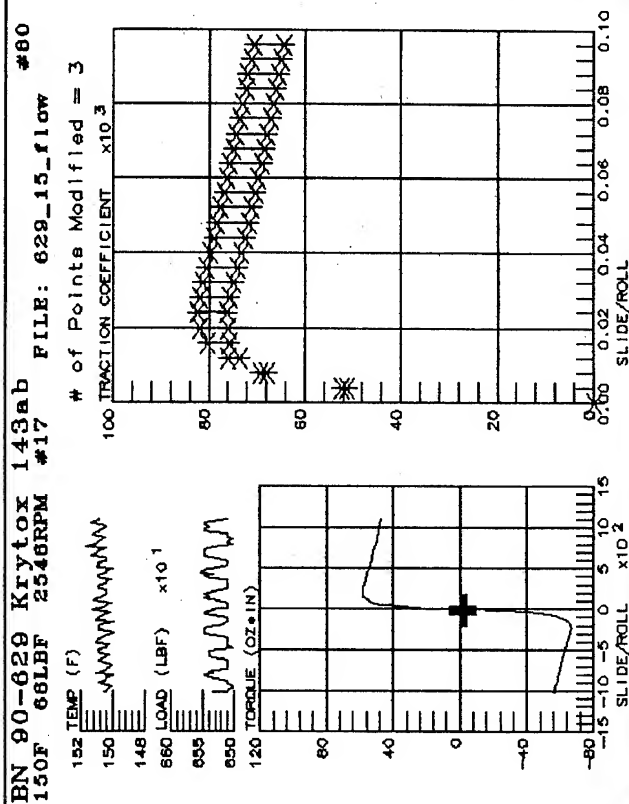
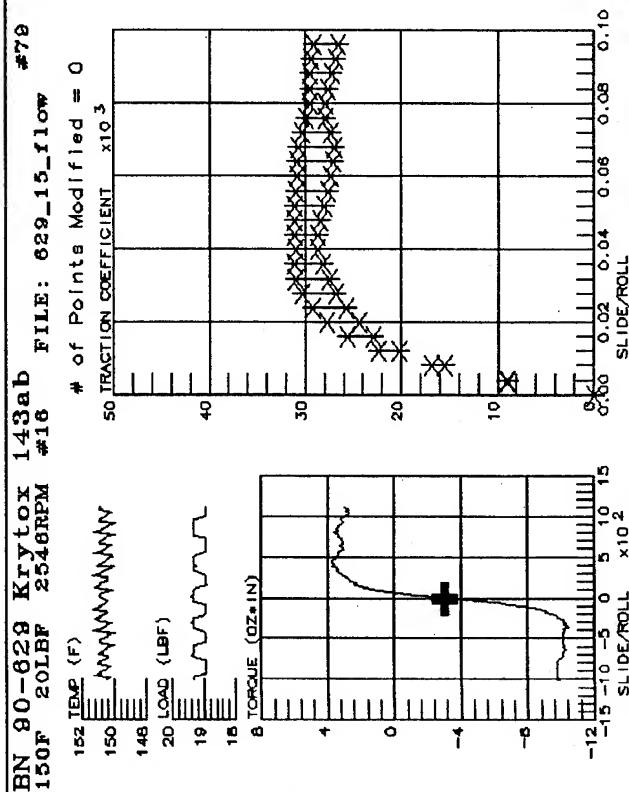
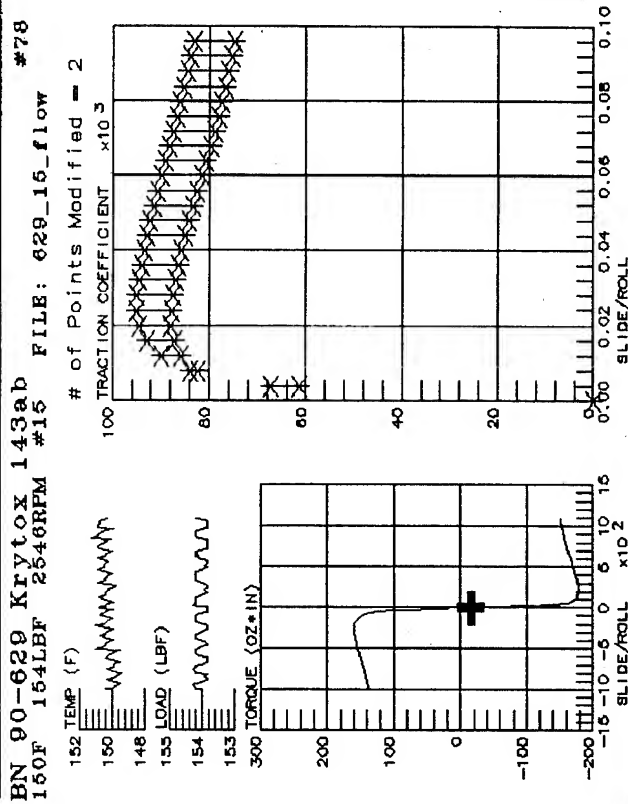
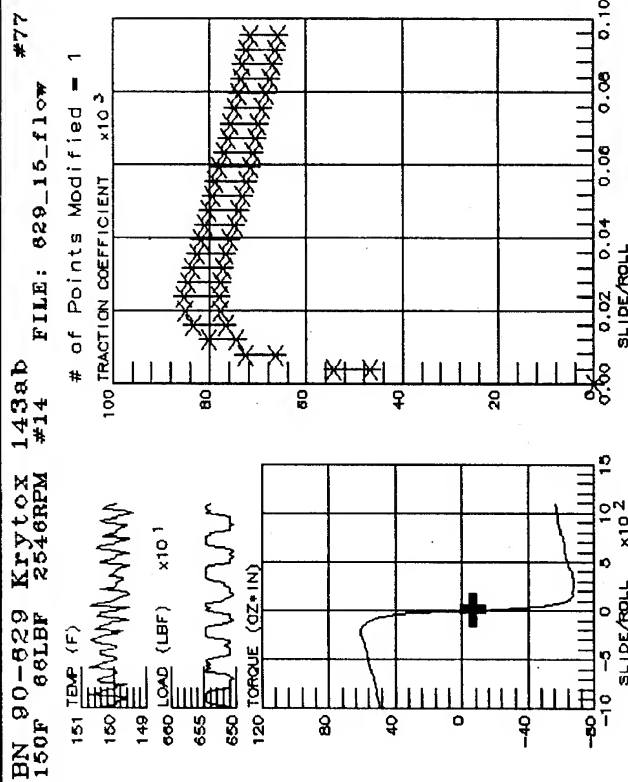
BN 90-629 Krytox 143ab #74 FILE: 629_15_flow #11
150F 68LBF 1273RPM #11



BN 90-629 Krytox 143ab #76 FILE: 629_15_flow #13
150F 20LBF 2546RPM #13

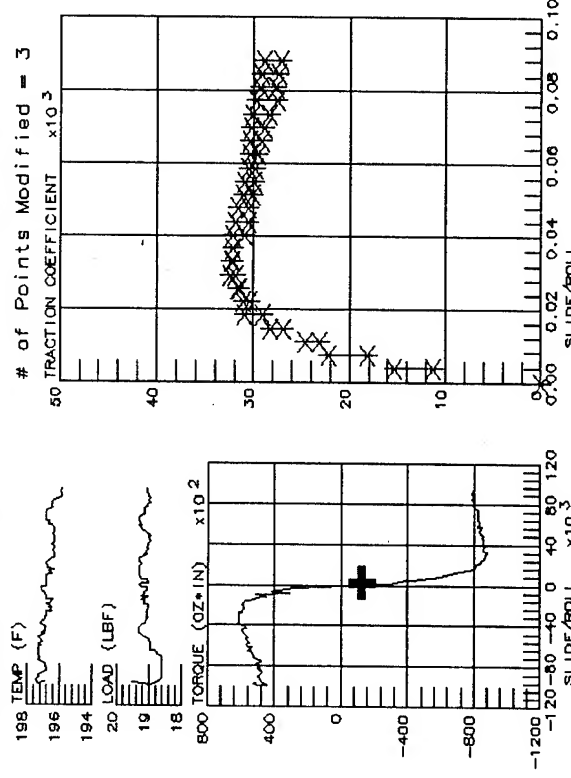


TRACTION DATA

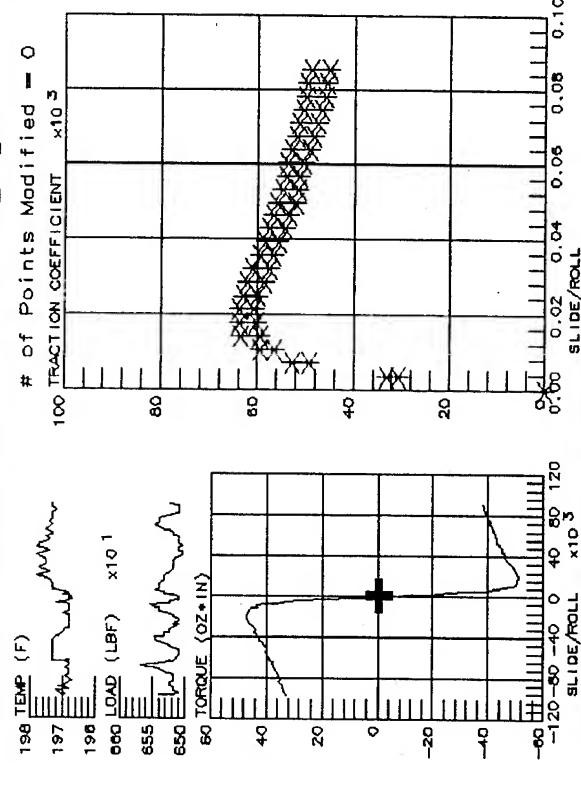


TRACION DATA

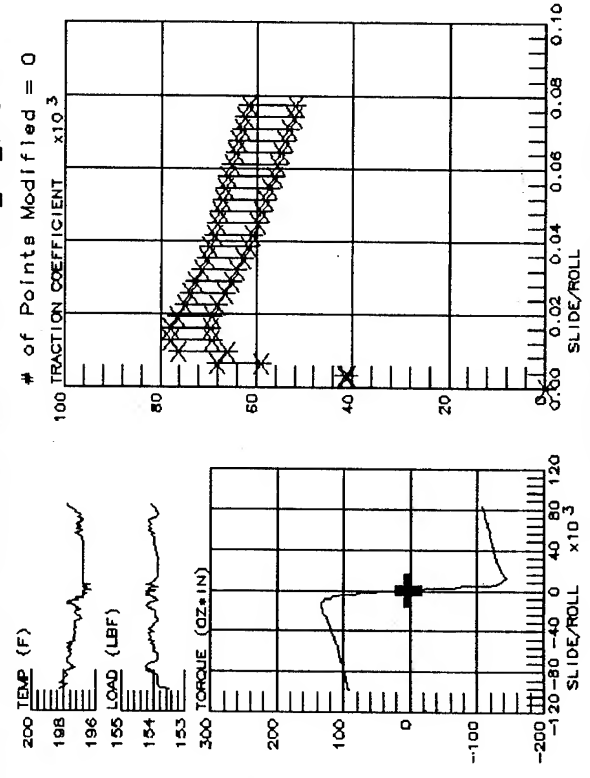
BN 90-629 Krytox 143ab #85
200F 20LBF 7639RPM #4 FILE: 629_20_fh1



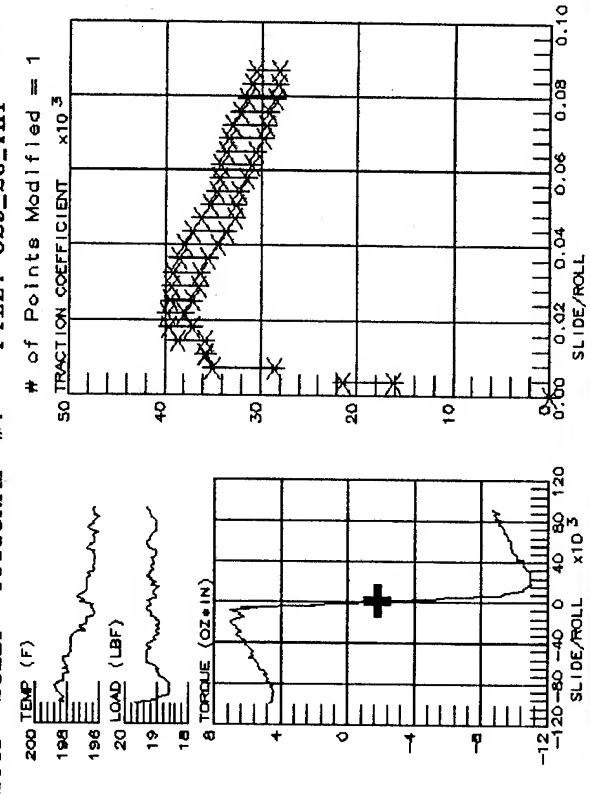
BN 90-629 Krytox 143ab #86
200F 60LBF 7639RPM #5 FILE: 629_20_fh1



BN 90-629 Krytox 143ab #87
200F 154LBF 7639RPM #6 FILE: 629_20_fh1



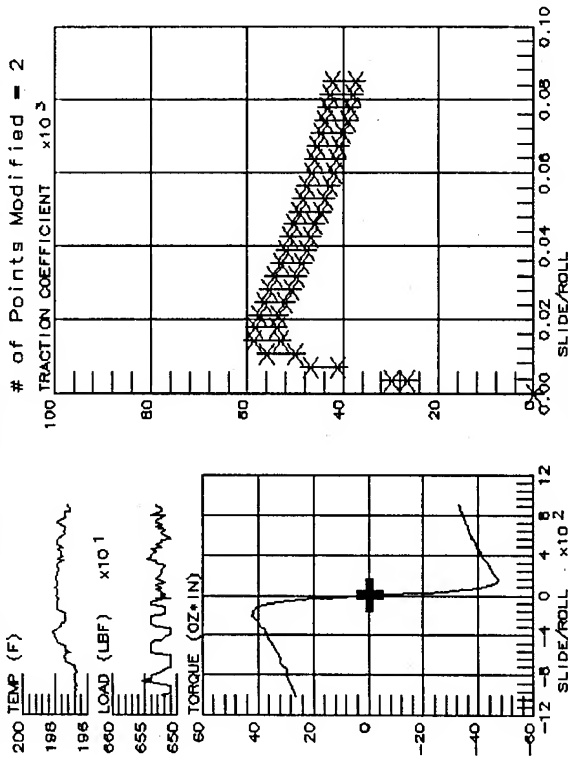
BN 90-629 Krytox 143ab #88
200F 20LBF 1016RPM #7 FILE: 629_20_fh1



TRACTION DATA

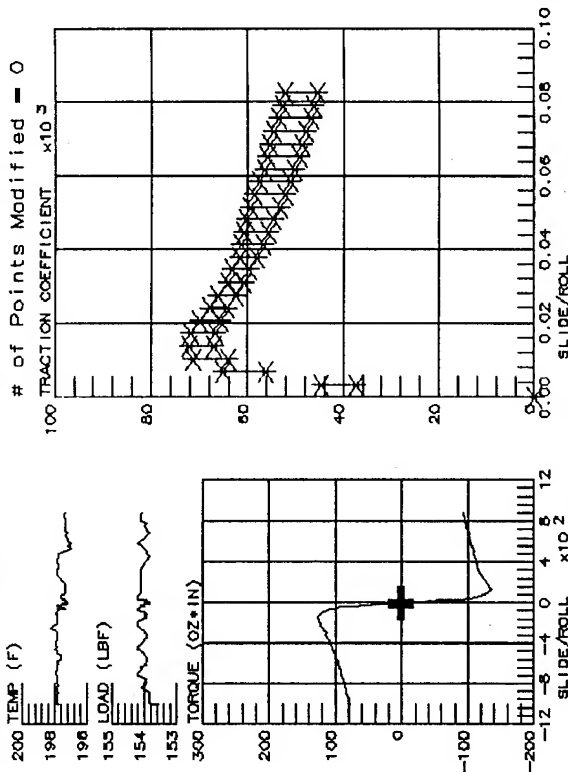
BN 90-629 Krytox 143ab
200F 68LBF 1018RPM #8 FILE: 629_20_flow

of Points Modified = 2



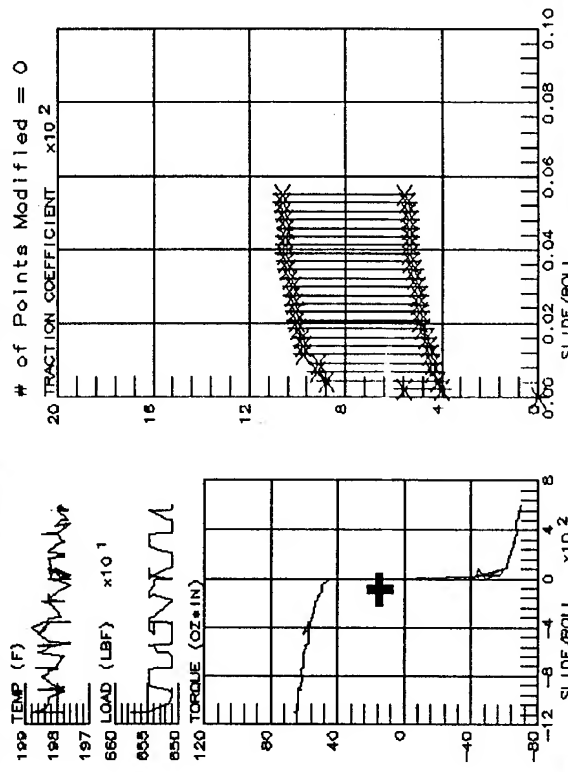
BN 90-629 Krytox 143ab
200F 154LBF 1018RPM #9 FILE: 629_20_flow

of Points Modified = 0



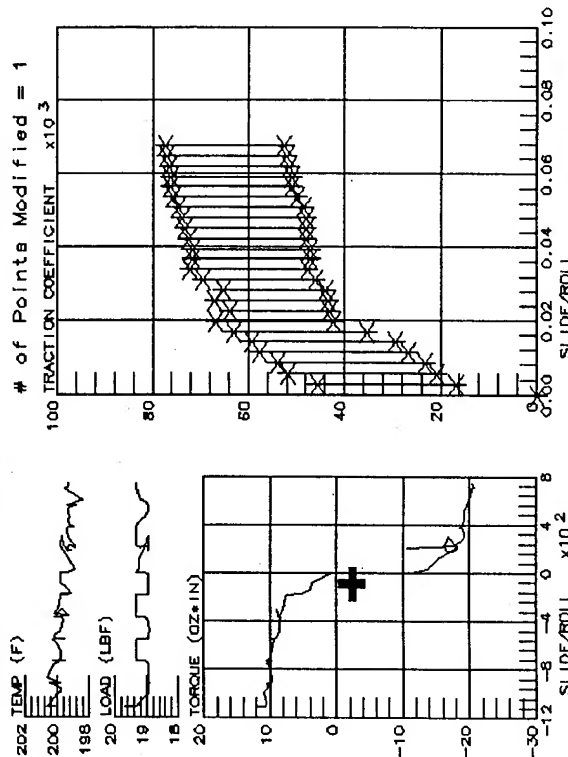
BN 90-629 Krytox 143ab
200F 68LBF 318RPM #2 FILE: 629_20_flow

of Points Modified = 0



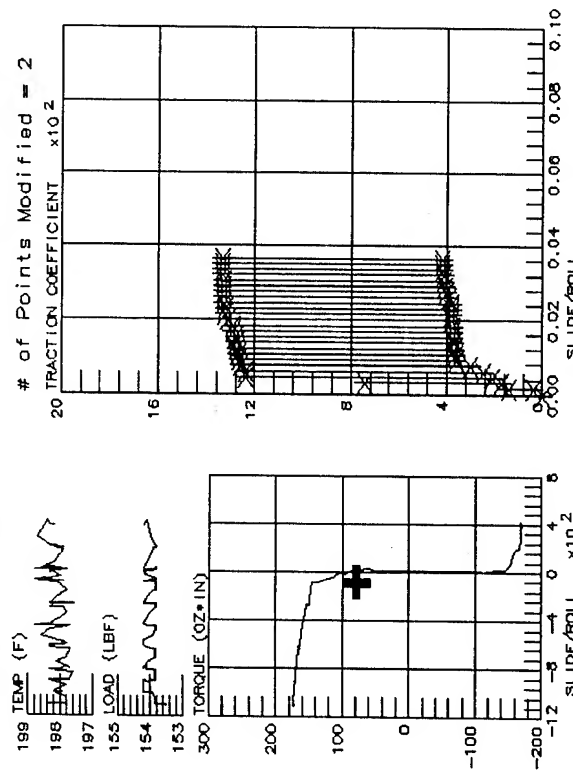
BN 90-629 Krytox 143ab
200F 20LBF 318RPM #1 FILE: 629_20_flow

of Points Modified = 1

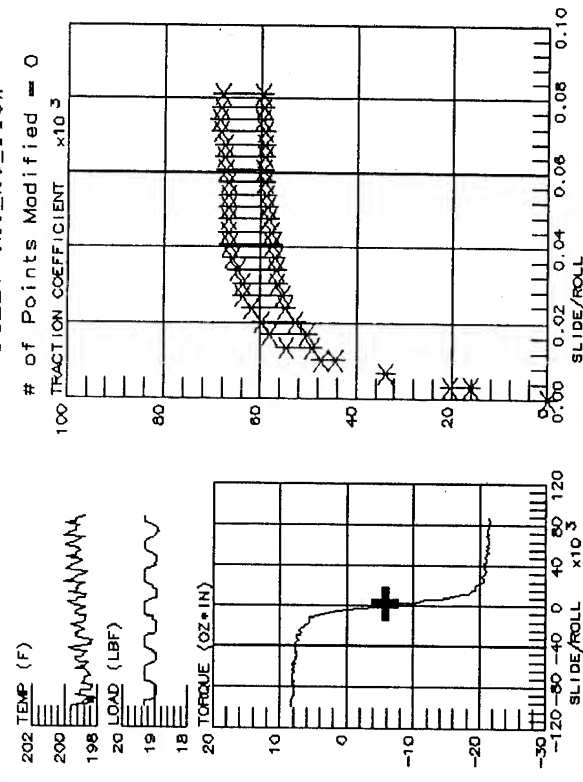


TRACTION DATA

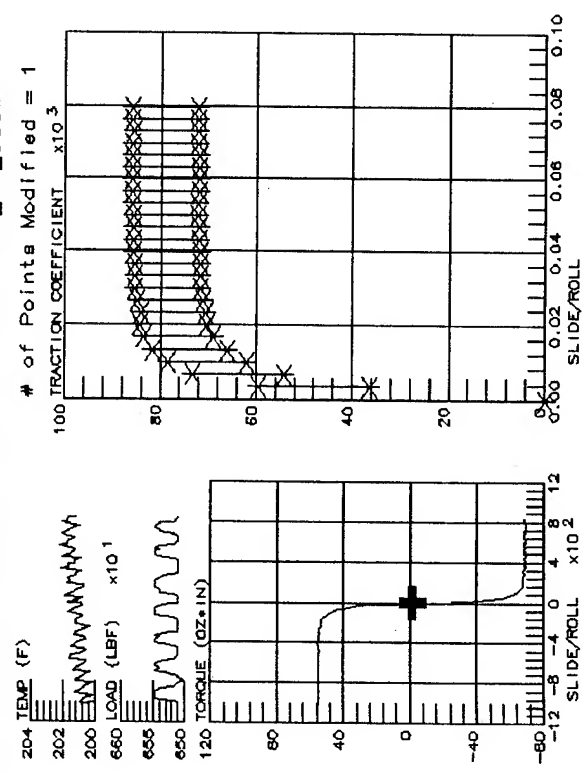
BN 90-629 Krytox 143ab #93
200F 154LBF 1273RPM #3 FILE: 629_20_flow



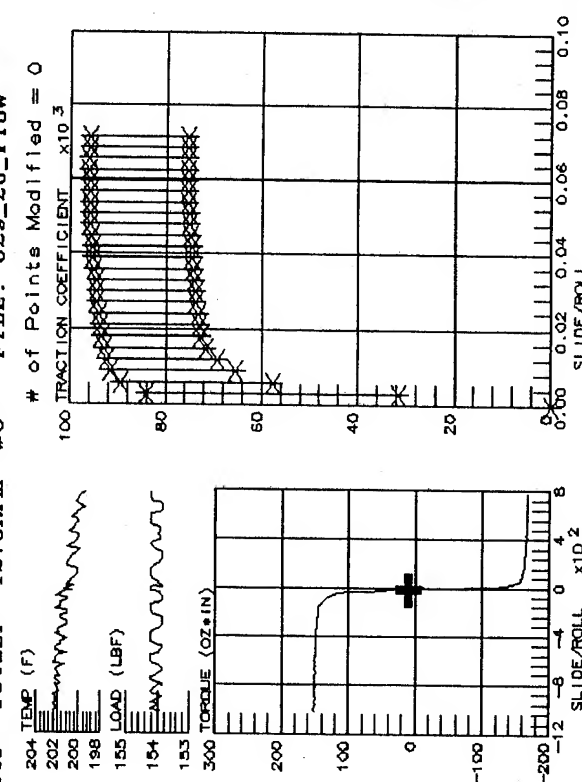
BN 90-629 Krytox 143ab #94
200F 20LBF 1273RPM #4 FILE: 629_20_flow



BN 90-629 Krytox 143ab #95
200F 66LBF 1273RPM #5 FILE: 629_20_flow



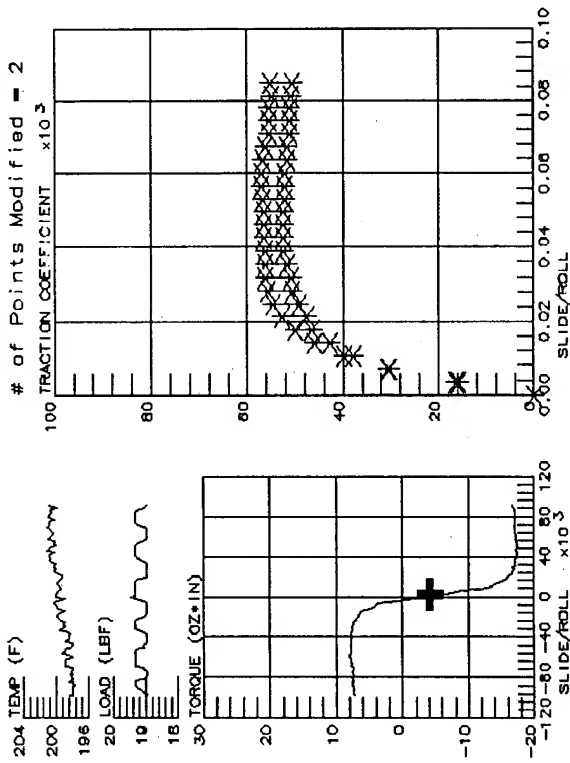
BN 90-629 Krytox 143ab #96
200F 154LBF 1273RPM #6 FILE: 629_20_flow



TRACTION DATA

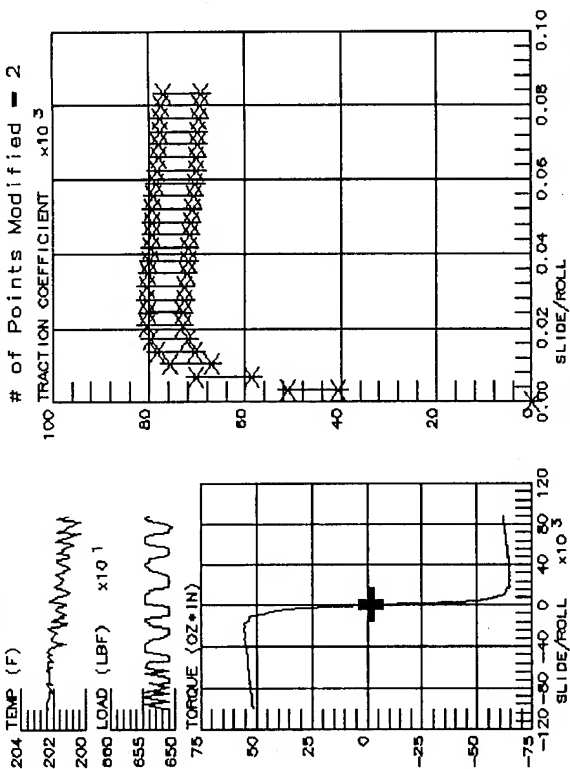
BN 90-629 Krytox 143ab #97
200F 20LBF 2546RPM #7 FILE: 629_20_flow

of Points Modified = 2



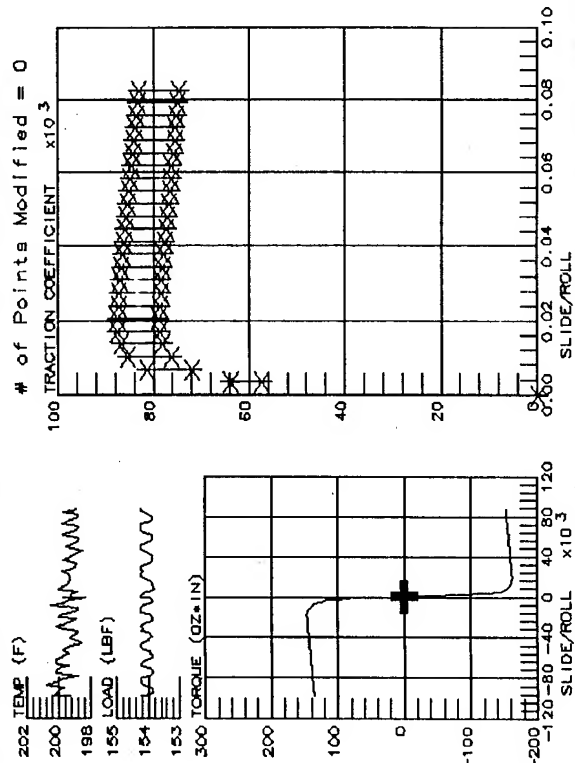
BN 90-629 Krytox 143ab #98
200F 66LBF 2546RPM #8 FILE: 629_20_flow

of Points Modified = 2



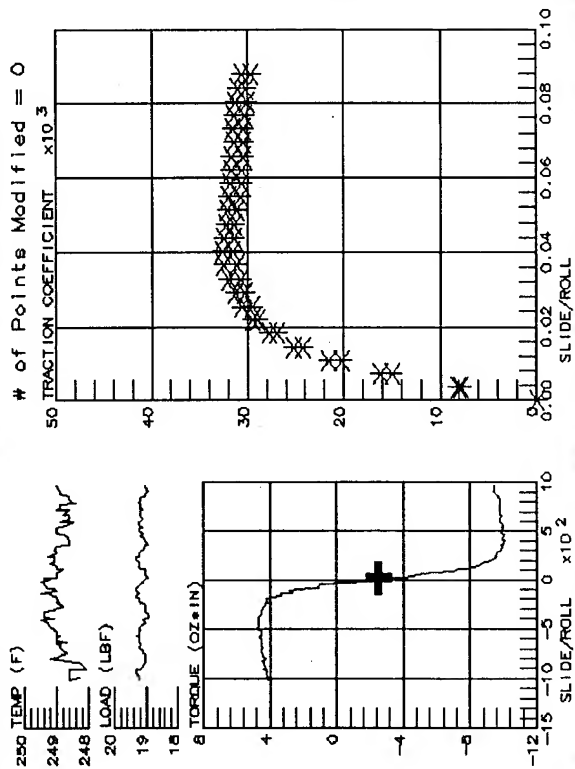
BN 90-629 Krytox 143ab #99
200F 154LBF 2546RPM #9 FILE: 629_20_flow

of Points Modified = 0

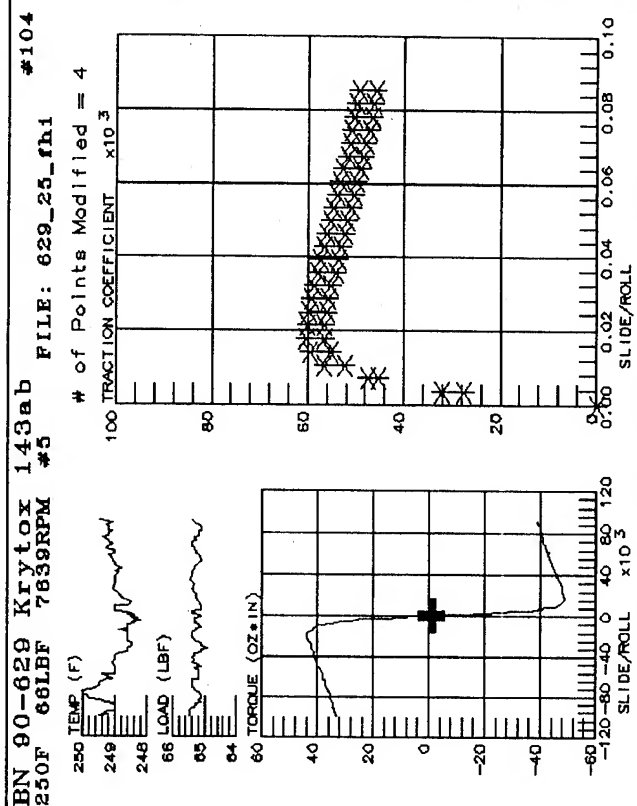
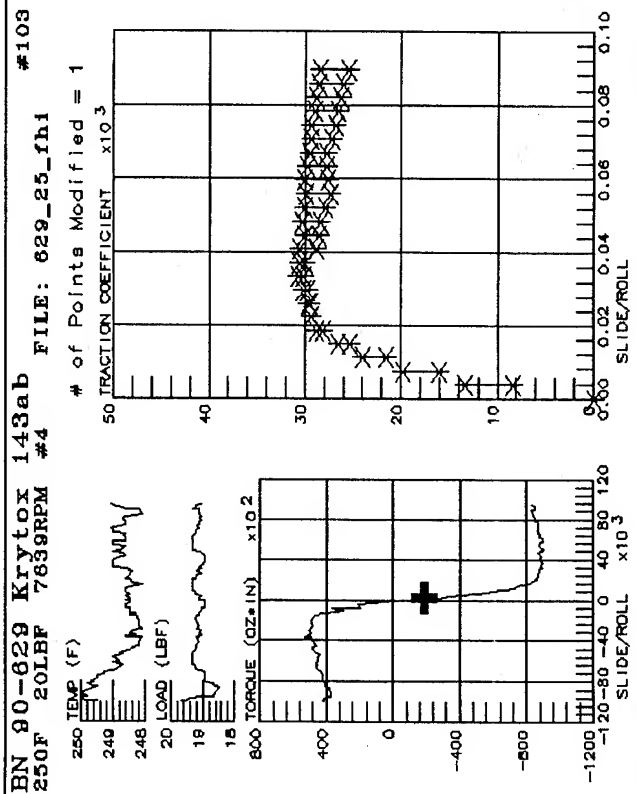
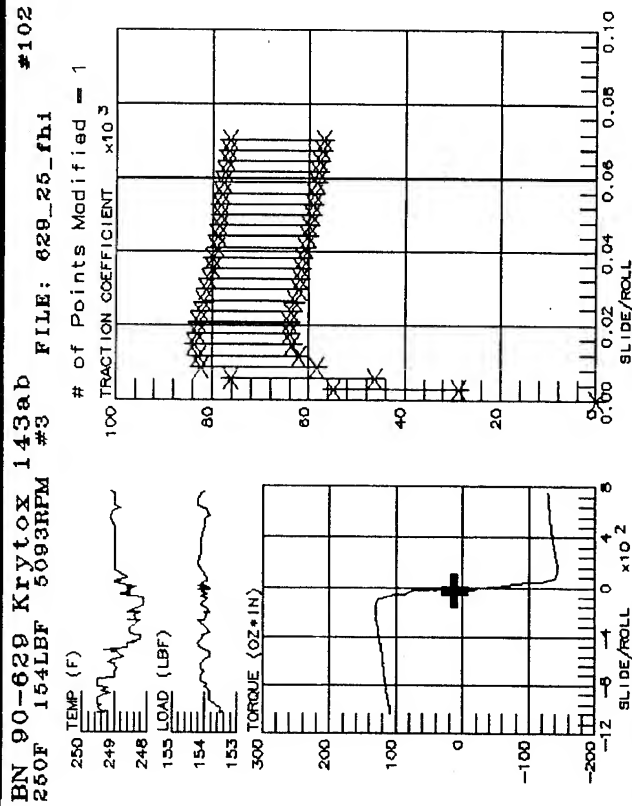
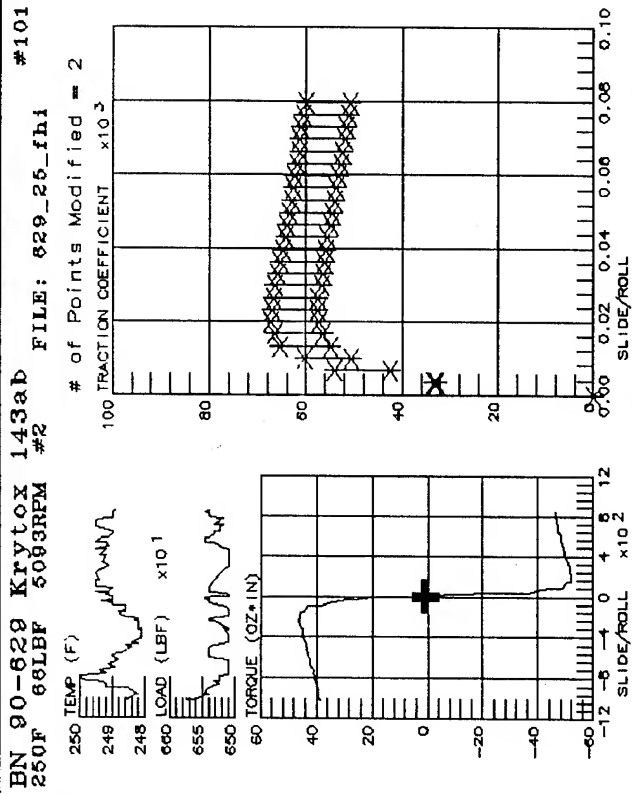


BN 90-629 Krytox 143ab #100
250F 20LBF 5093RPM #1 FILE: 629_25_flow

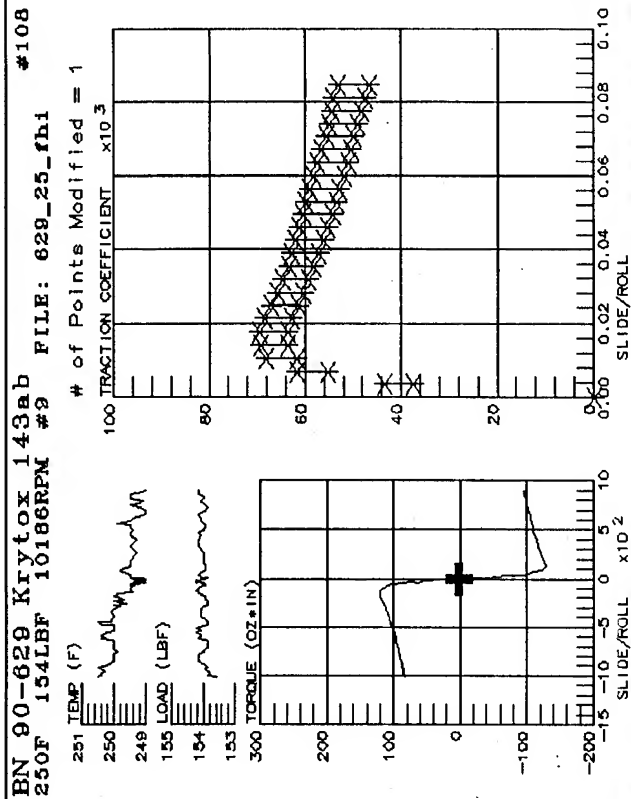
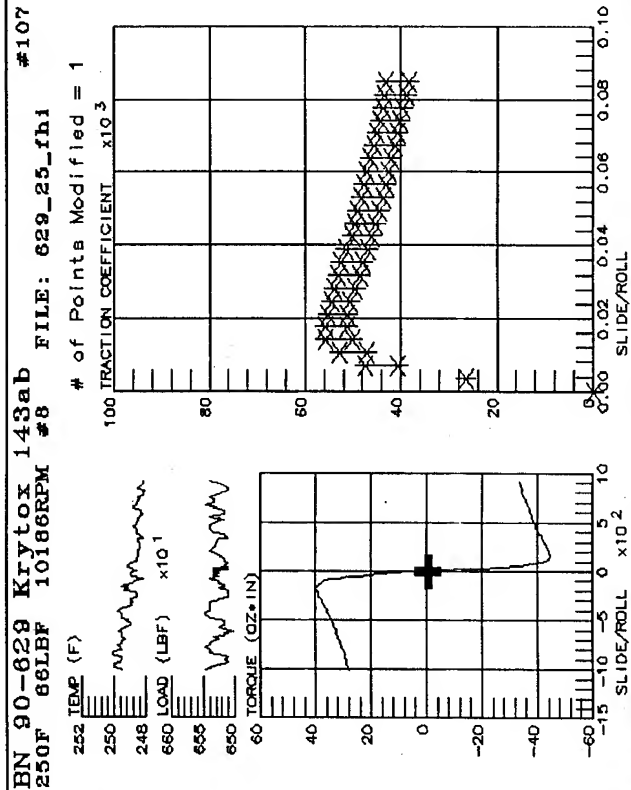
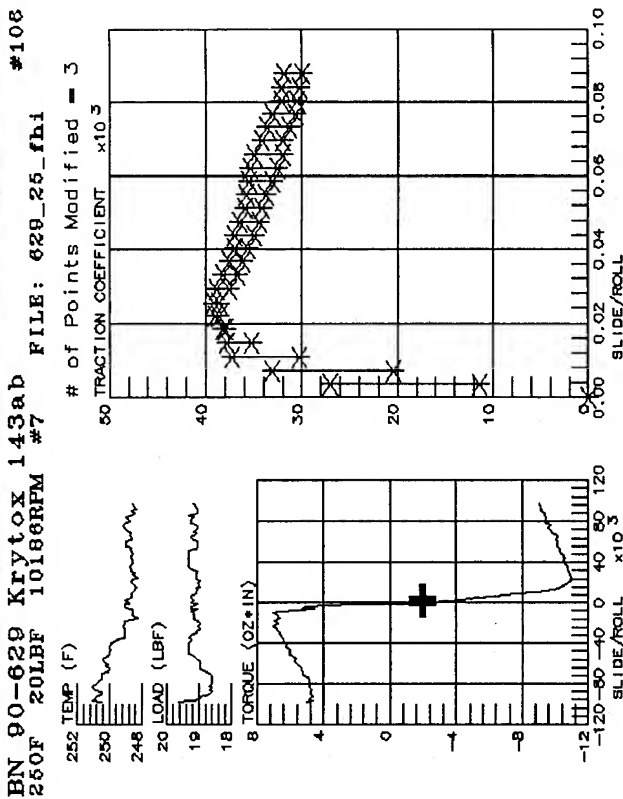
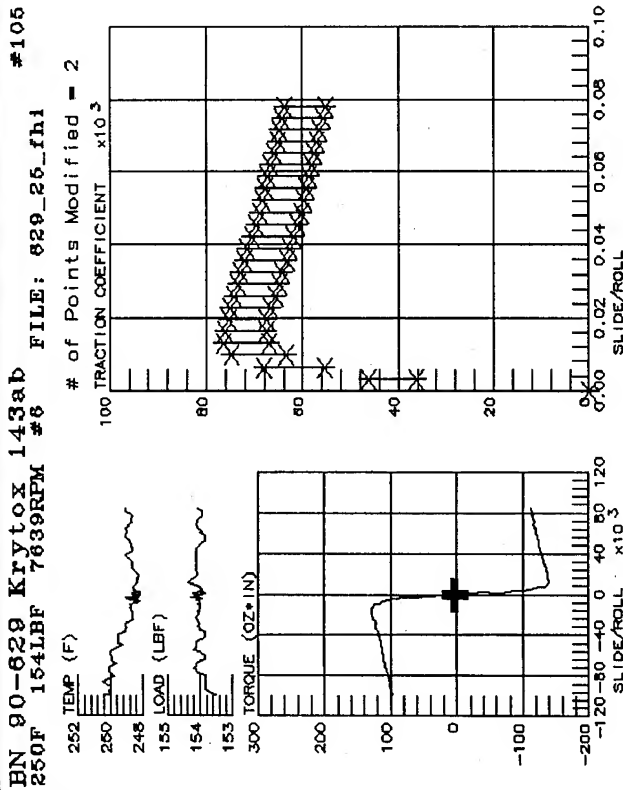
of Points Modified = 0



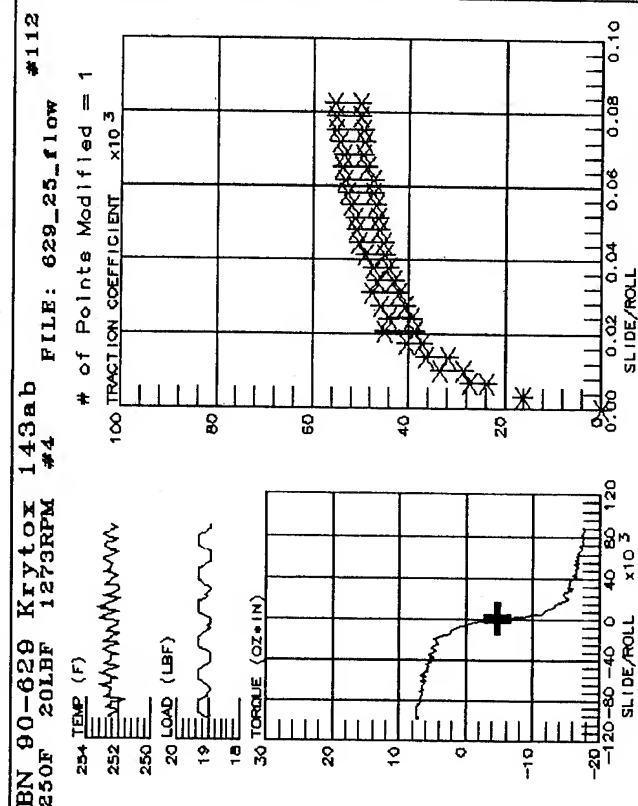
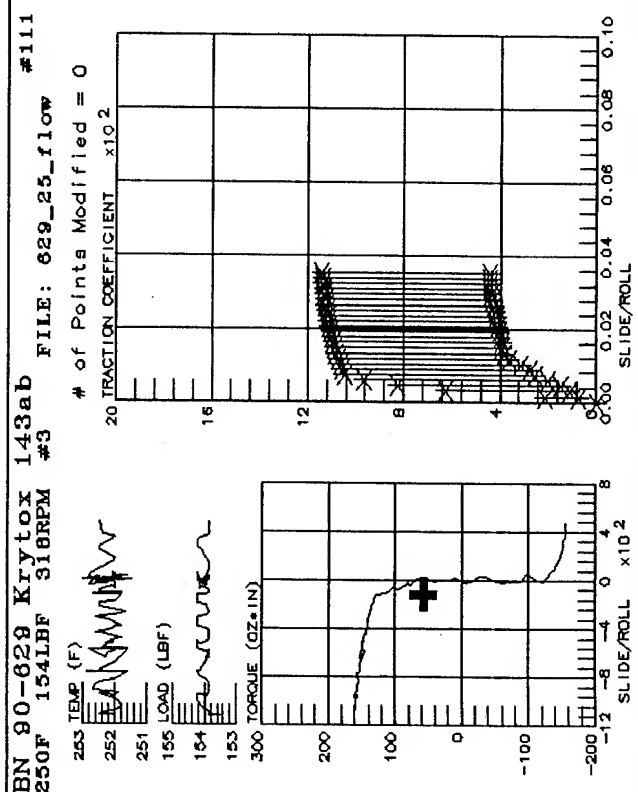
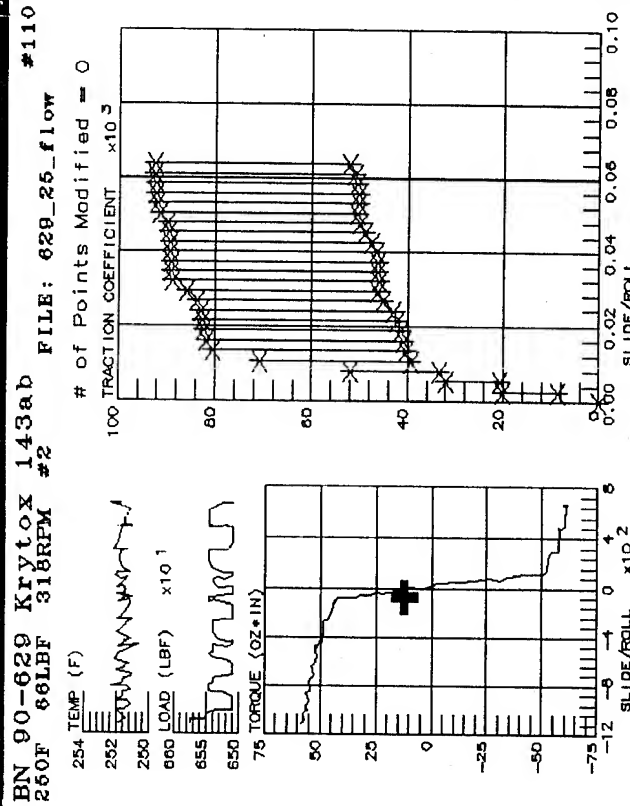
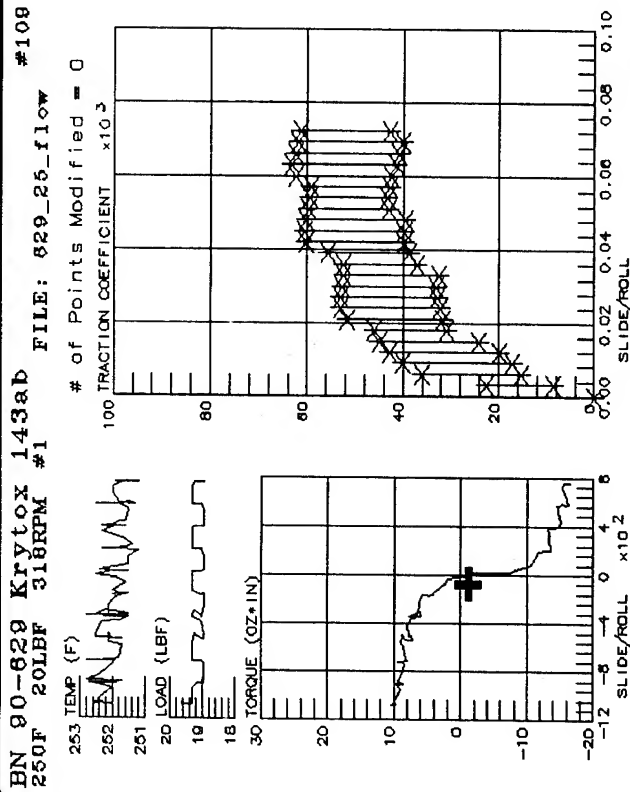
TRACTION DATA



TRACTION DATA



TRACTION DATA



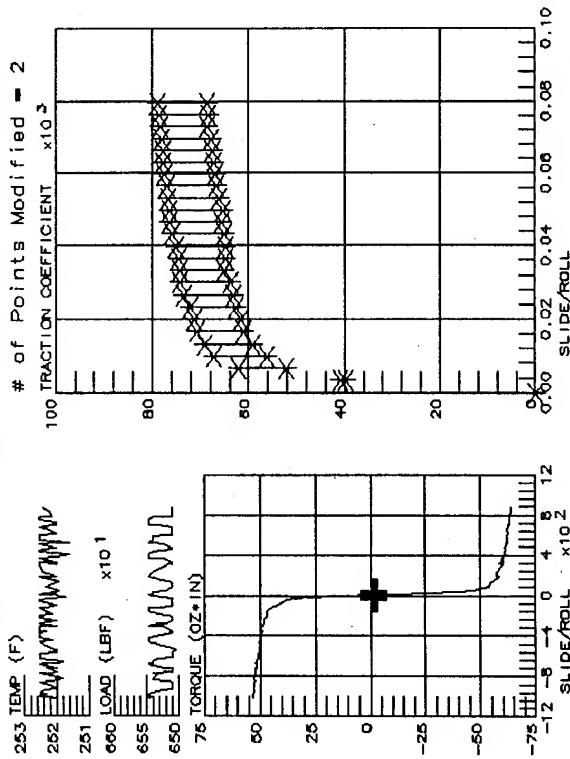
TRACTION DATA

BN 90-629 Krytox 143ab
250F 68LBF 1273RPM #5

FILE: 629_25_flow

#113

of Points Modified = 2

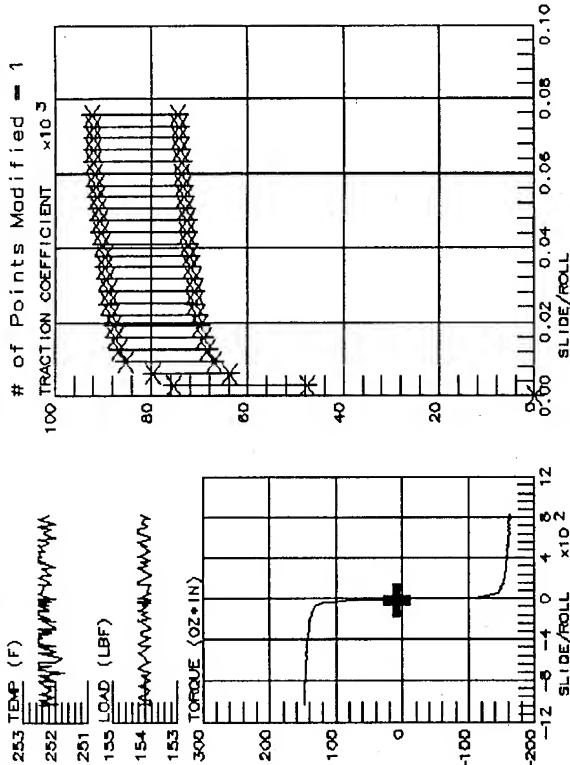


BN 90-629 Krytox 143ab
250F 154LBF 1273RPM #6

FILE: 629_25_flow

#114

of Points Modified = 1

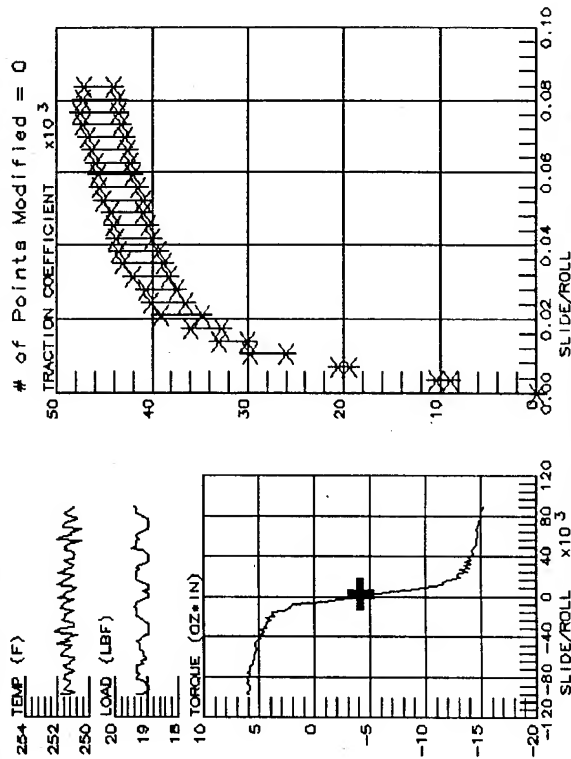


BN 90-629 Krytox 143ab
250F 20LBF 2546RPM #7

FILE: 629_25_flow

#116

of Points Modified = 0

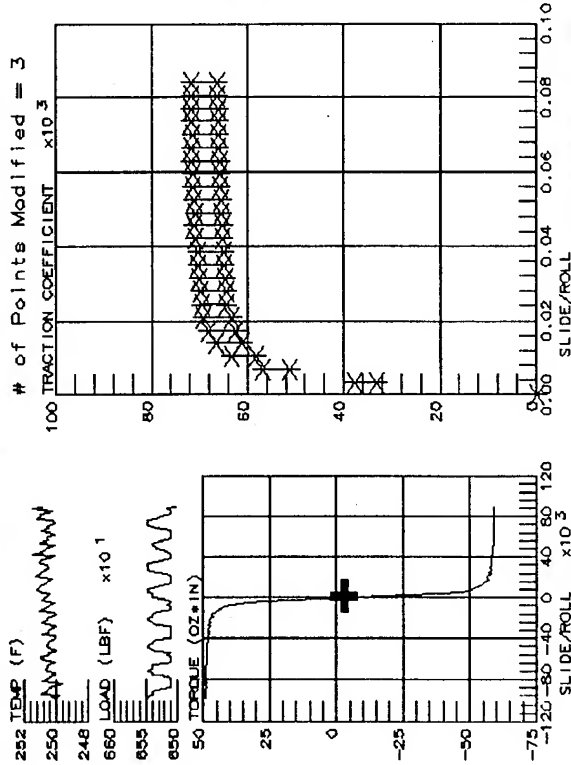


BN 90-629 Krytox 143ab
250F 68LBF 2546RPM #8

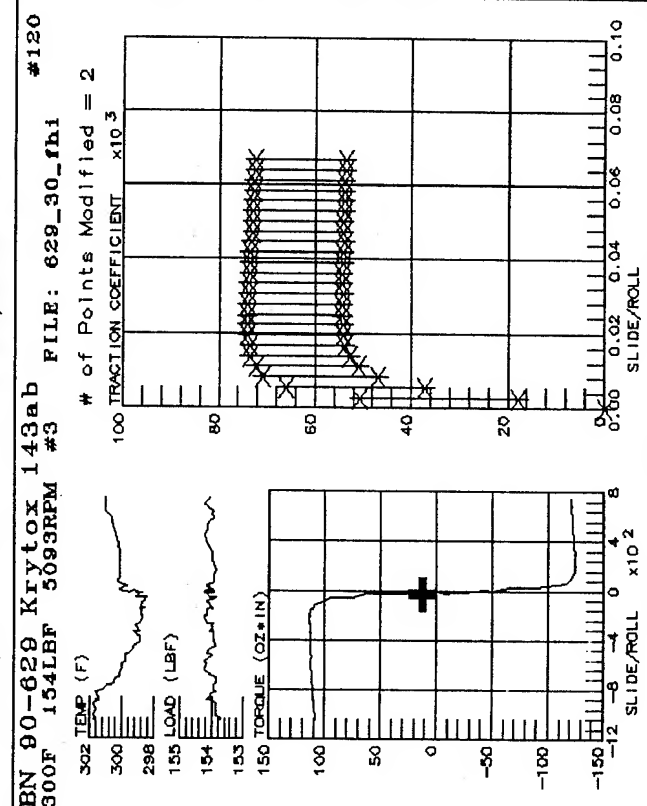
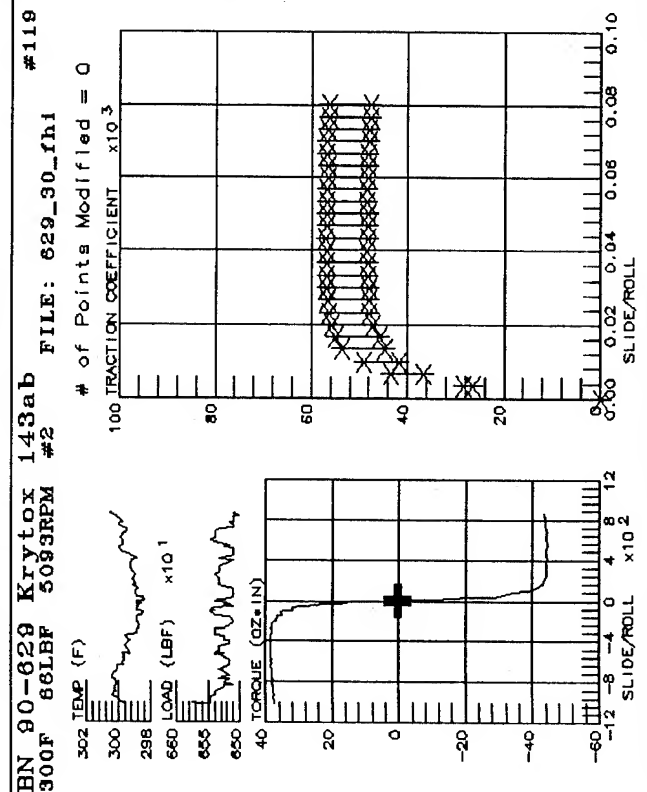
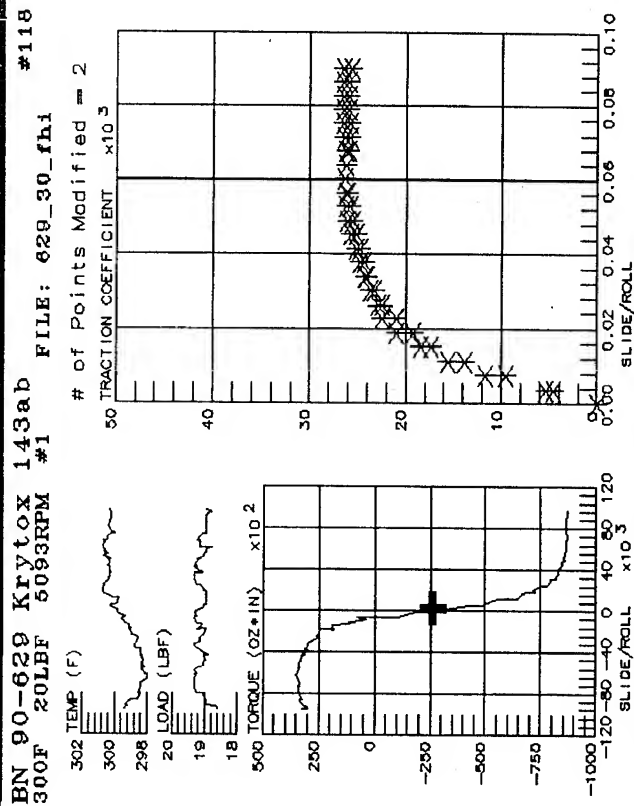
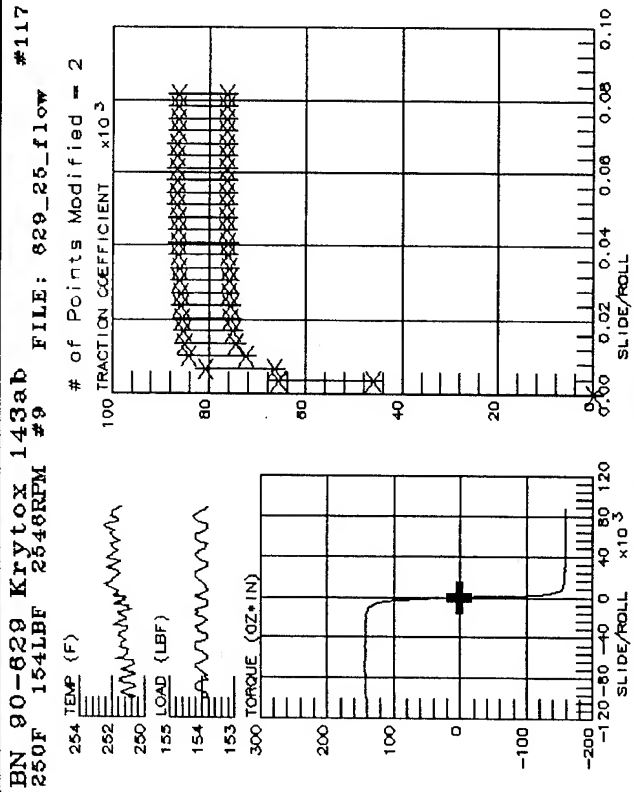
FILE: 629_25_flow

#116

of Points Modified = 3

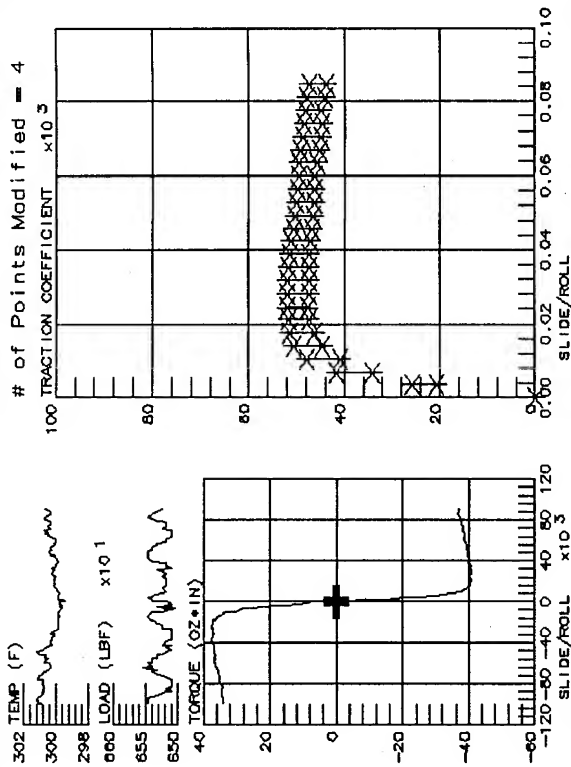
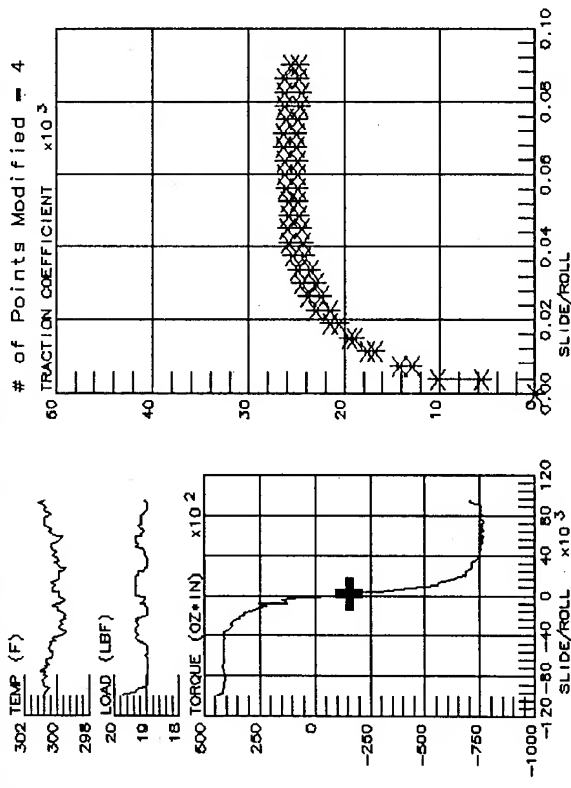


TRACTION DATA

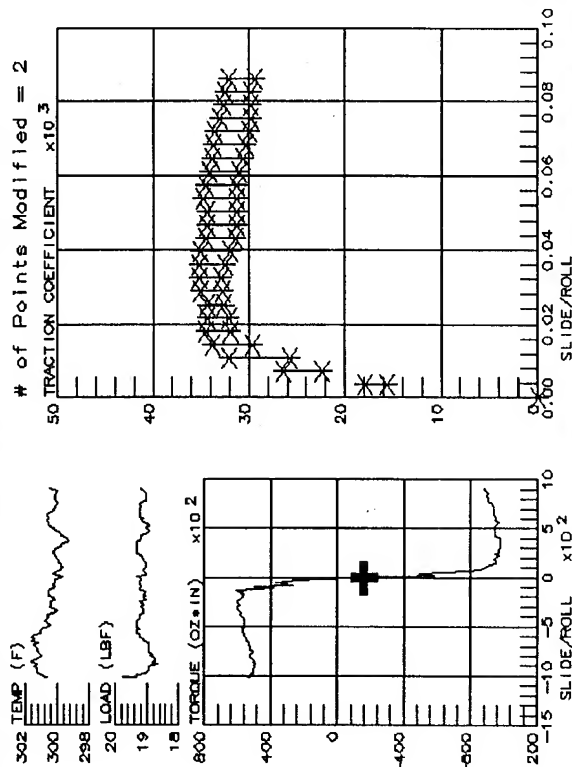
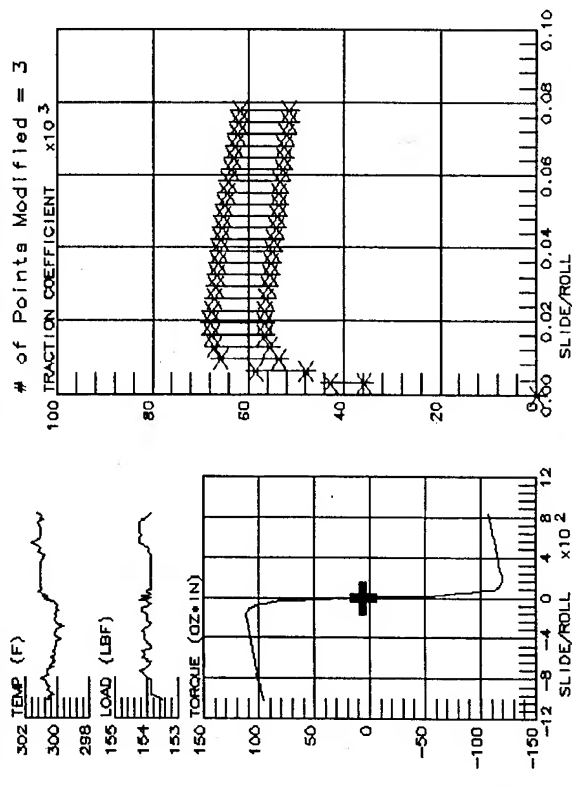


TRACIION DATA

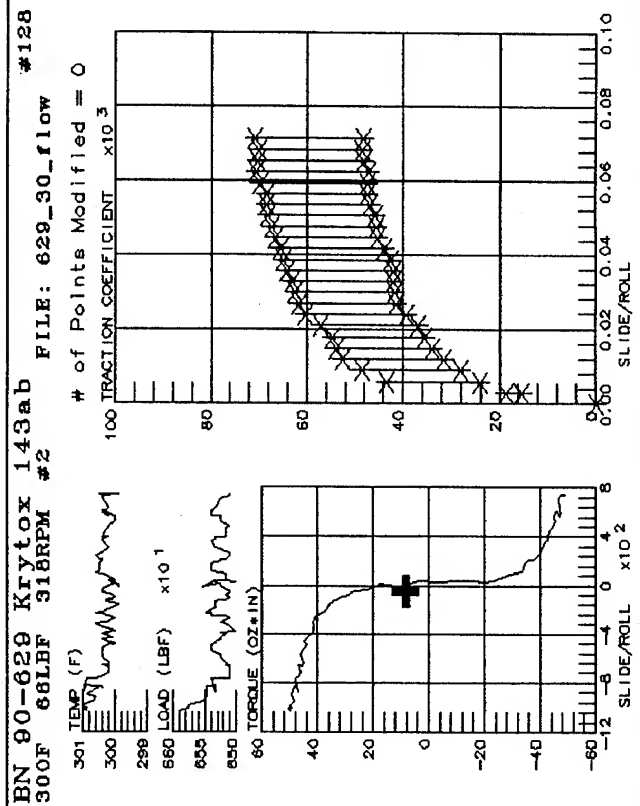
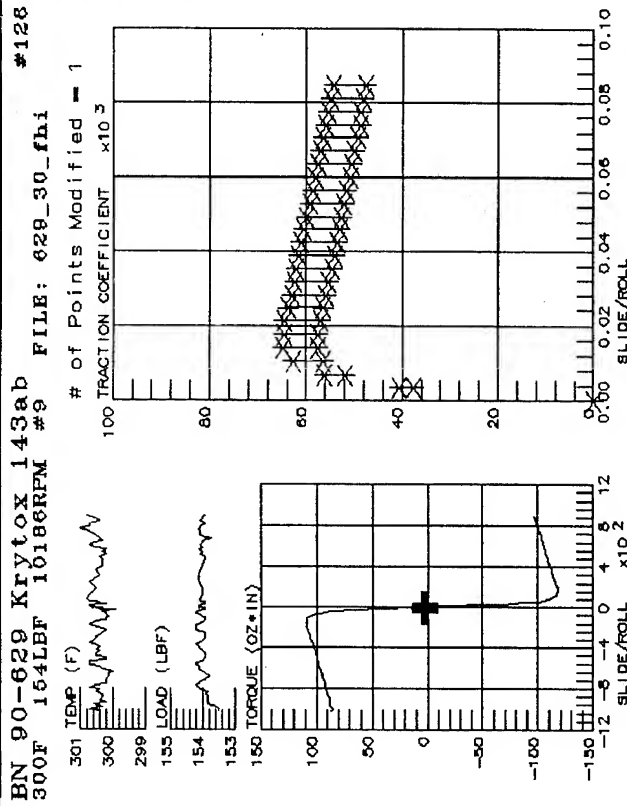
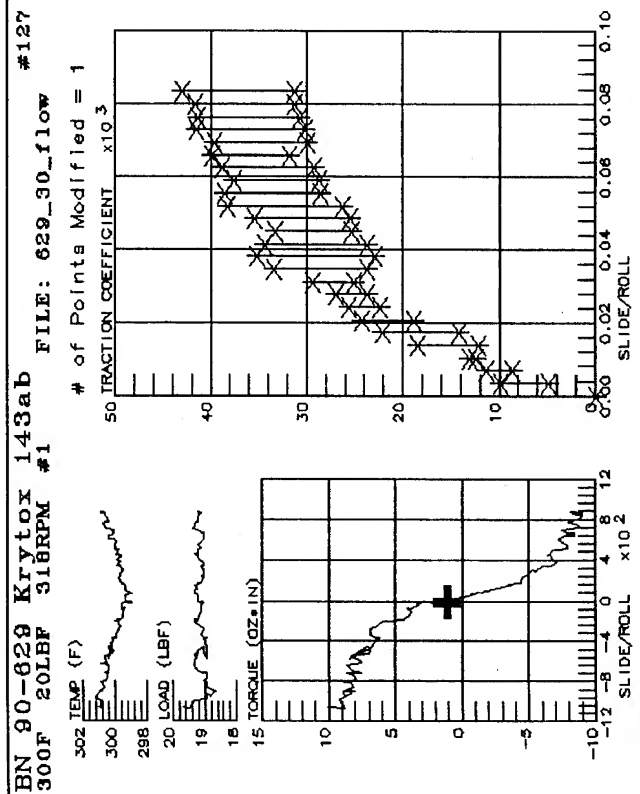
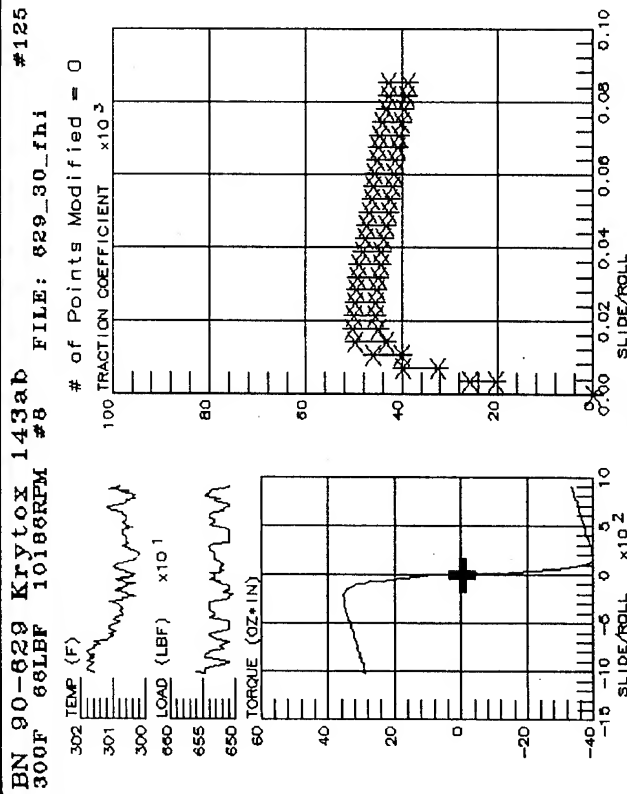
BN 90-629 Krytox 143ab #121 FILE: 629_30_fh1 #122
300F 20LBF 7639RPM #4 300F 60LBF 7639RPM #6 FILE: 629_30_fh1



BN 90-629 Krytox 143ab #123 FILE: 629_30_fh1 #124
300F 154LBF 7639RPM #6 300F 20LBF 1018RPM #7 FILE: 629_30_fh1



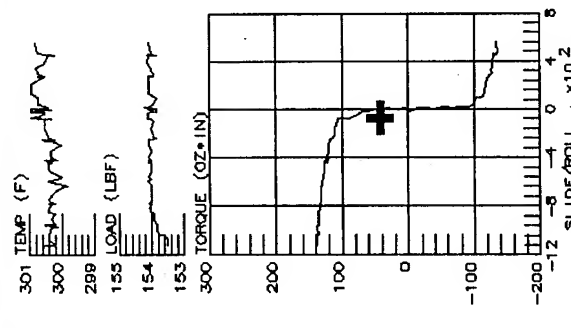
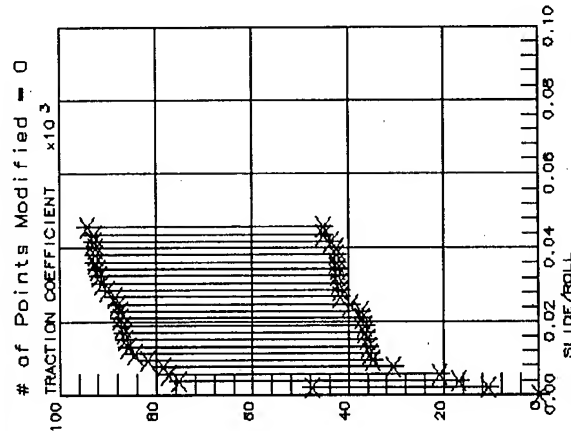
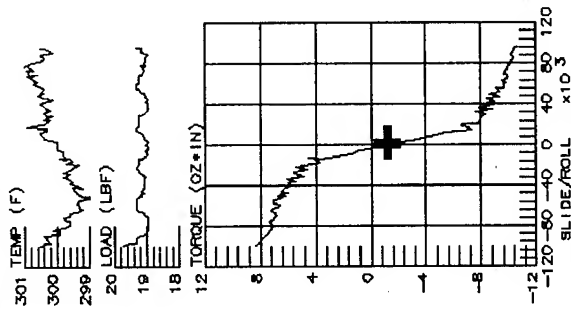
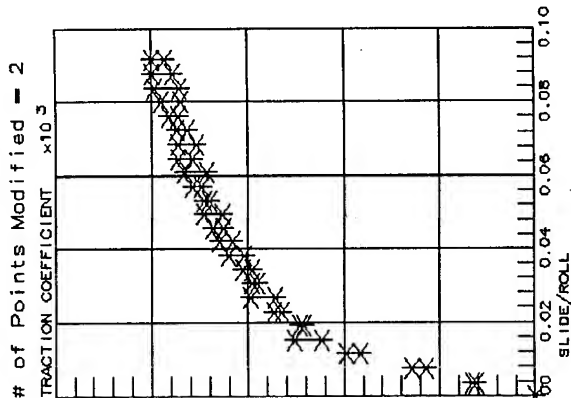
TRACTION DATA



TRACTION DATA

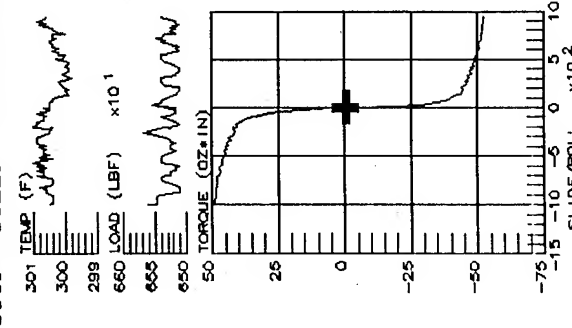
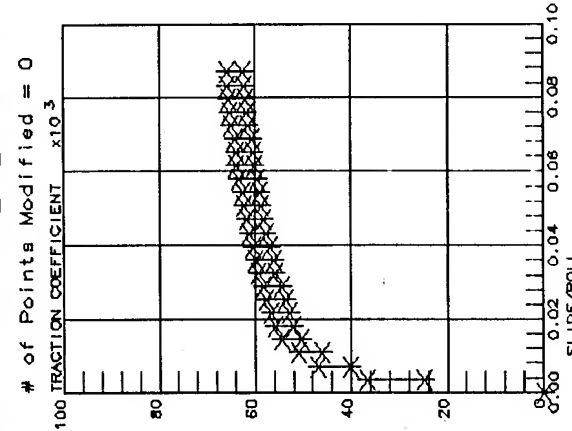
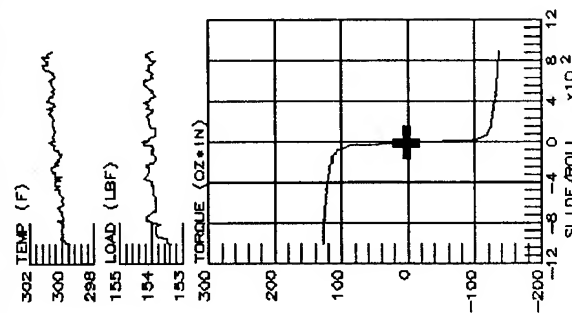
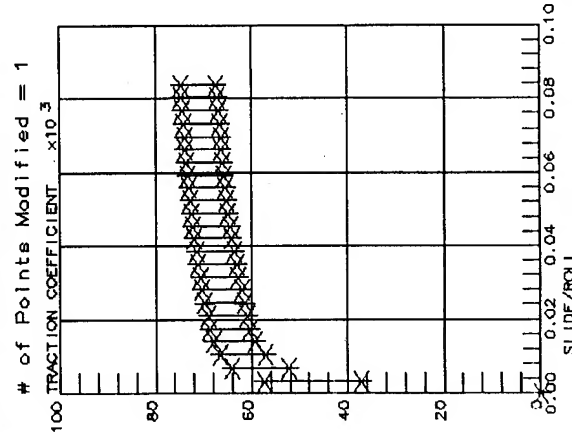
BN 90-629 Krytox 143ab
300F 20LBF 1273RPM #4 FILE: 629_30_flow

BN 90-629 Krytox 143ab
300F 154LBF 1273RPM #3 FILE: 629_30_flow



BN 90-629 Krytox 143ab
300F 154LBF 1273RPM #6 FILE: 629_30_flow

BN 90-629 Krytox 143ab
300F 66LBF 1273RPM #5 FILE: 629_30_flow



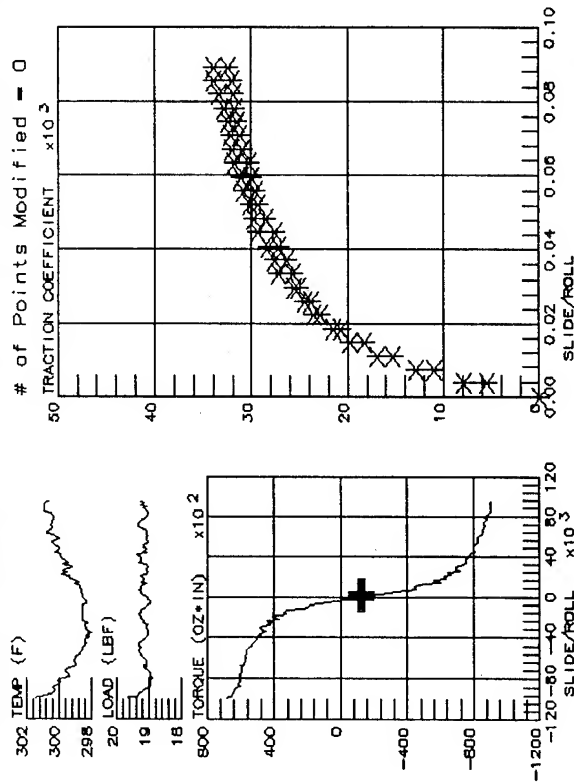
TRACTION DATA

BN 90-629 Krytox 143ab
300F 20LBF 2546RPM #7

FILE: 629_30_flow

#133

of Points Modified = 0

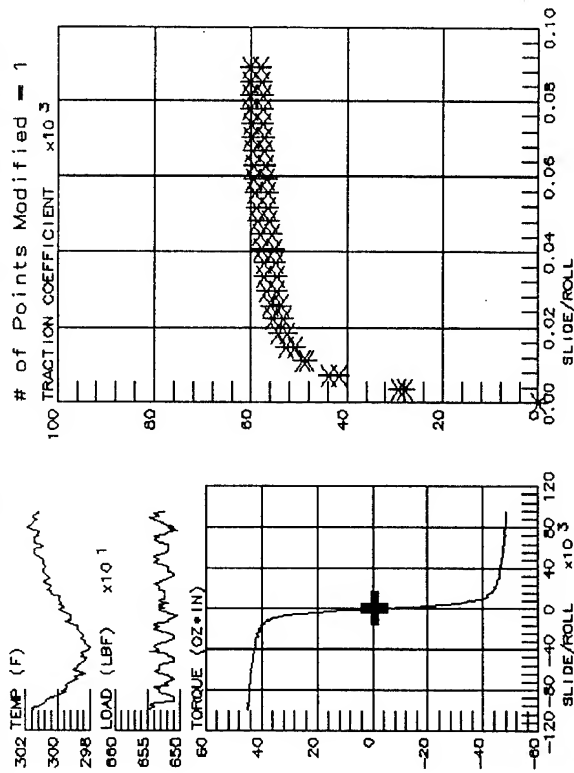


BN 90-629 Krytox 143ab
300F 66LBF 2546RPM #8

FILE: 629_30_flow

#134

of Points Modified = 1

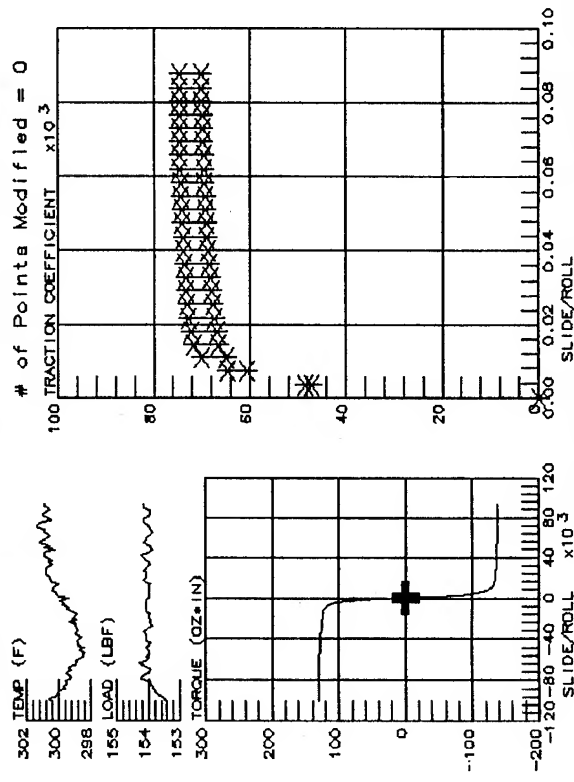


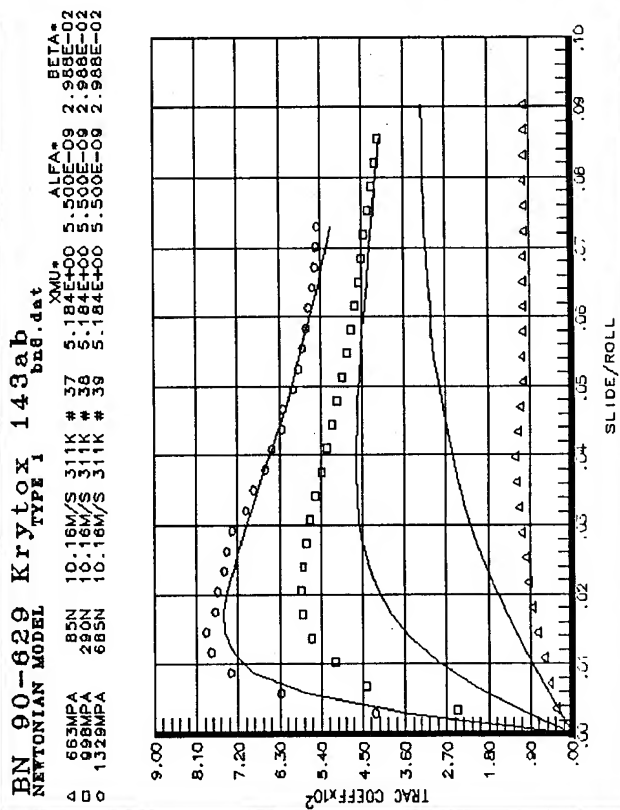
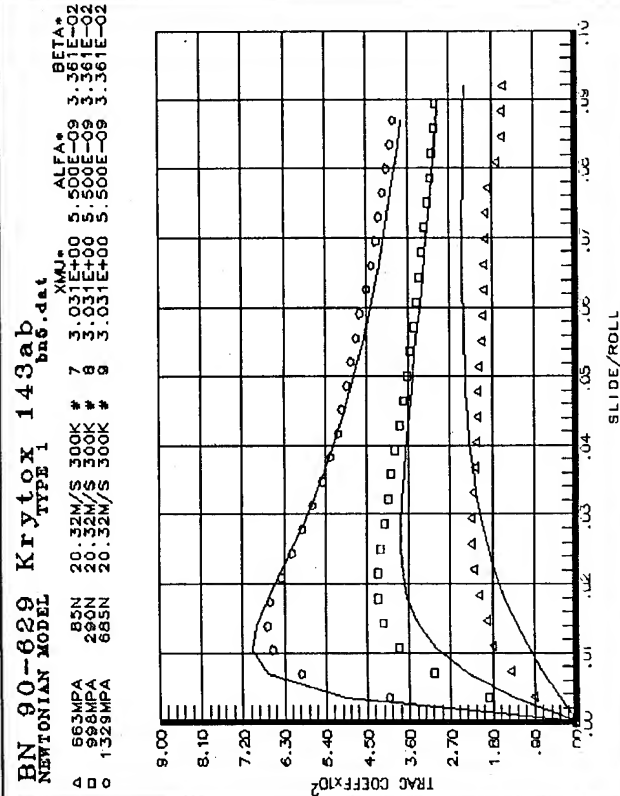
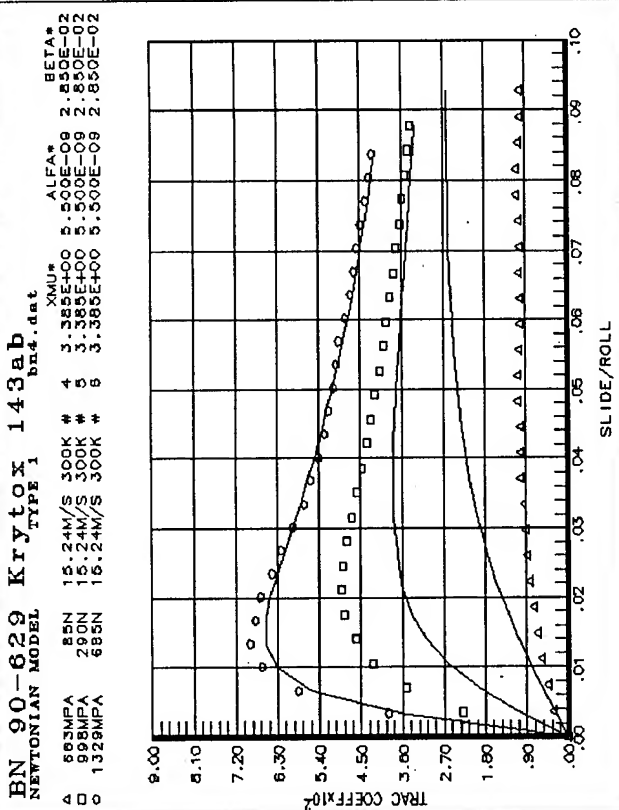
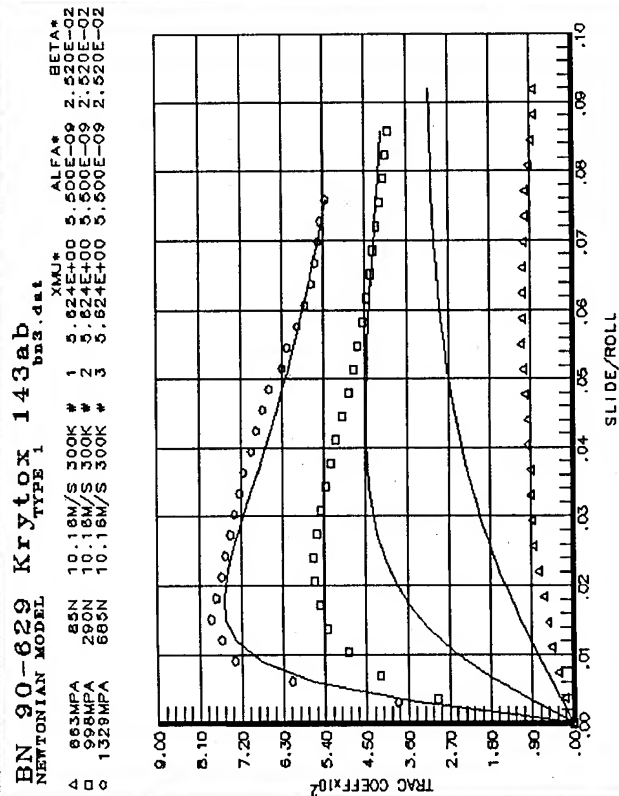
BN 90-629 Krytox 143ab
300F 154LBF 2546RPM #9

FILE: 629_30_flow

#135

of Points Modified = 0

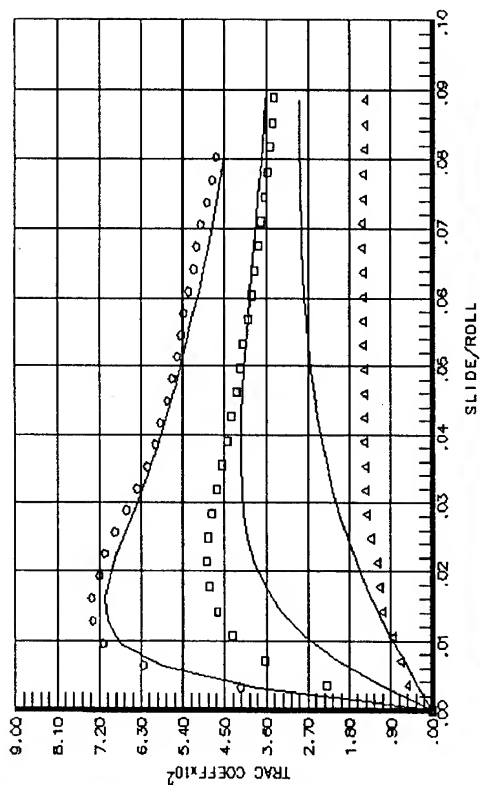




BN 90-629 Krytox 143ab

NEWTONIAN MODEL TYPE 1 bn9.dat

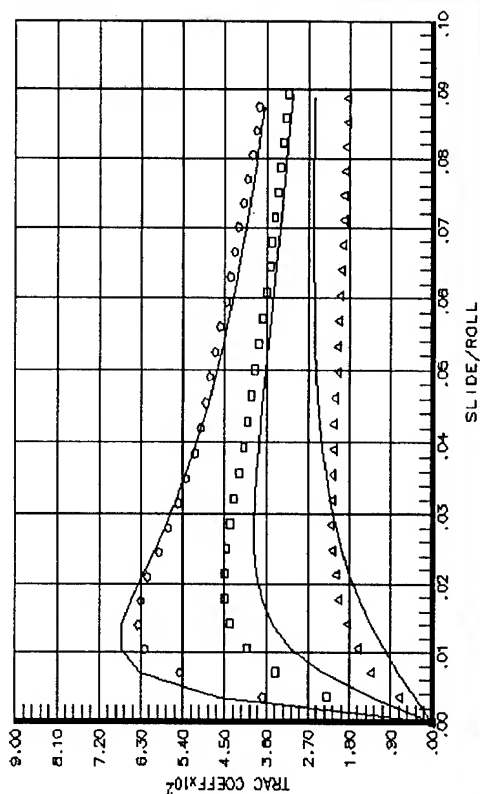
	BM	290N	685N	15.24M/S 311K # 40	15.24M/S 311K # 41	15.24M/S 311K # 42	ALFA*	XMU*	BETA*
663MPA	85N	290N	685N	15.24M/S 311K # 40	15.24M/S 311K # 41	15.24M/S 311K # 42	5.500E-09	3.150E+00	2.623E-02
998MPA	290N	685N	15.24M/S 311K # 41	15.24M/S 311K # 42	15.24M/S 311K # 43	15.24M/S 311K # 44	5.500E-09	2.579E+00	3.132E-02
1329MPA	685N	15.24M/S 311K # 42	15.24M/S 311K # 43	15.24M/S 311K # 44	15.24M/S 311K # 45	15.24M/S 311K # 46	5.500E-09	2.579E+00	3.132E-02



BN 90-629 Krytox 143ab

NEWTONIAN MODEL TYPE 1 bn10.dat

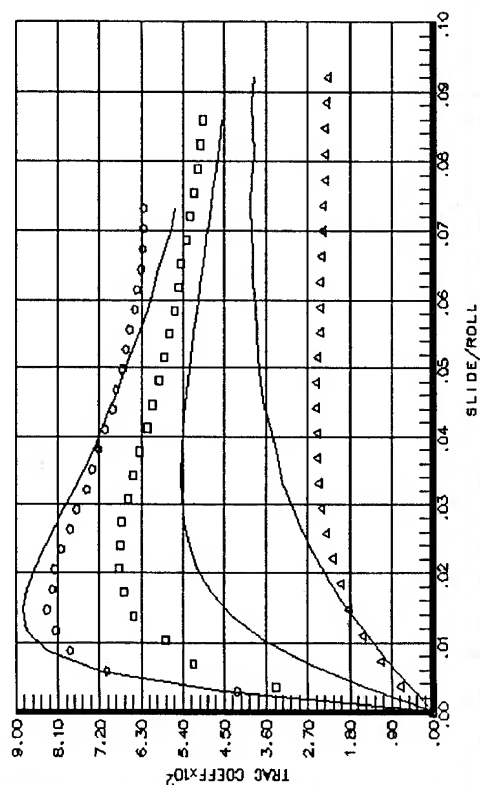
	BM	290N	685N	20.32M/S 311K # 43	20.32M/S 311K # 44	20.32M/S 311K # 45	ALFA*	XMU*	BETA*
663MPA	85N	290N	685N	20.32M/S 311K # 43	20.32M/S 311K # 44	20.32M/S 311K # 45	5.500E-09	2.579E+00	3.132E-02
998MPA	290N	685N	20.32M/S 311K # 44	20.32M/S 311K # 45	20.32M/S 311K # 46	20.32M/S 311K # 47	5.500E-09	2.579E+00	3.132E-02
1329MPA	685N	20.32M/S 311K # 45	20.32M/S 311K # 46	20.32M/S 311K # 47	20.32M/S 311K # 48	20.32M/S 311K # 49	5.500E-09	2.579E+00	3.132E-02



BN 90-629 Krytox 143ab

NEWTONIAN MODEL TYPE 1 bn13.dat

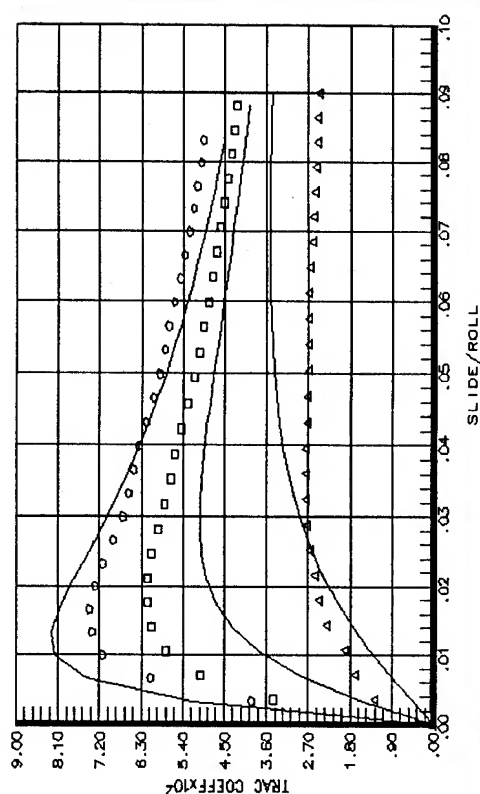
	BM	290N	685N	10.16M/S 339K # 10	10.16M/S 339K # 11	10.16M/S 339K # 12	ALFA*	XMU*	BETA*
663MPA	85N	290N	685N	10.16M/S 339K # 10	10.16M/S 339K # 11	10.16M/S 339K # 12	5.500E-09	3.562E+00	5.455E-02
998MPA	290N	685N	10.16M/S 339K # 11	10.16M/S 339K # 12	10.16M/S 339K # 13	10.16M/S 339K # 14	5.500E-09	3.562E+00	5.455E-02
1329MPA	685N	10.16M/S 339K # 12	10.16M/S 339K # 13	10.16M/S 339K # 14	10.16M/S 339K # 15	10.16M/S 339K # 16	5.500E-09	3.562E+00	5.455E-02



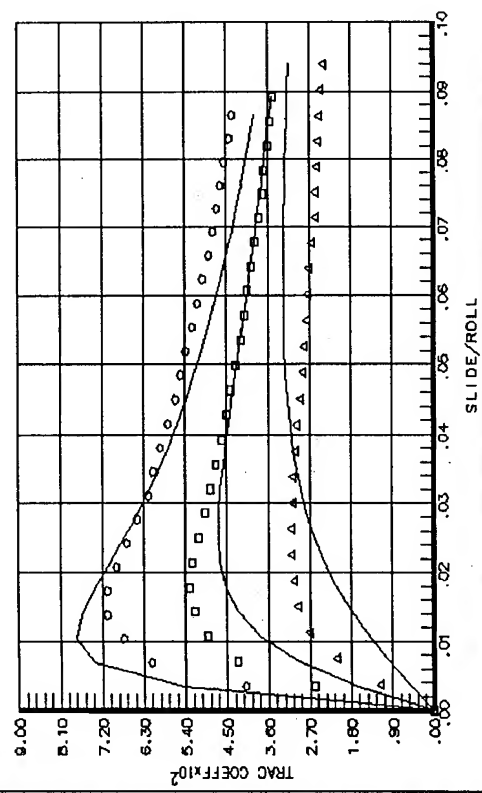
BN 90-629 Krytox 143ab

NEWTONIAN MODEL TYPE 1 bn14.dat

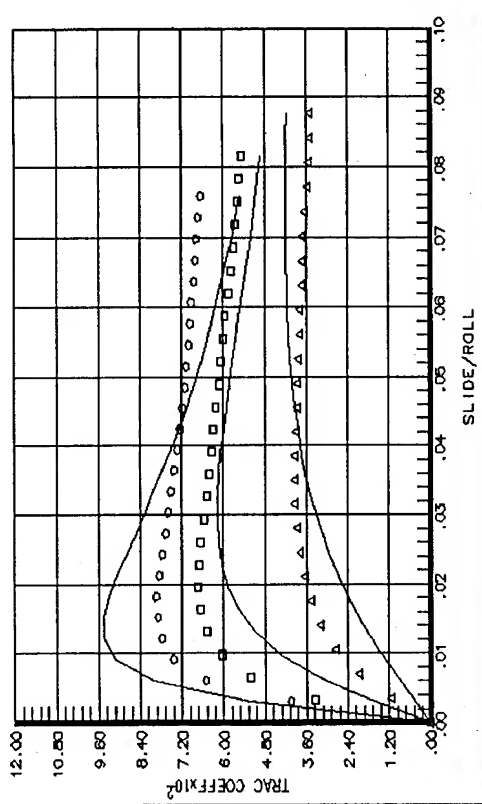
	BM	290N	685N	15.24M/S 339K # 13	15.24M/S 339K # 14	15.24M/S 339K # 15	ALFA*	XMU*	BETA*
663MPA	85N	290N	685N	15.24M/S 339K # 13	15.24M/S 339K # 14	15.24M/S 339K # 15	5.500E-09	2.833E+00	4.148E-02
998MPA	290N	685N	15.24M/S 339K # 14	15.24M/S 339K # 15	15.24M/S 339K # 16	15.24M/S 339K # 17	5.500E-09	2.833E+00	4.148E-02
1329MPA	685N	15.24M/S 339K # 15	15.24M/S 339K # 16	15.24M/S 339K # 17	15.24M/S 339K # 18	15.24M/S 339K # 19	5.500E-09	2.833E+00	4.148E-02



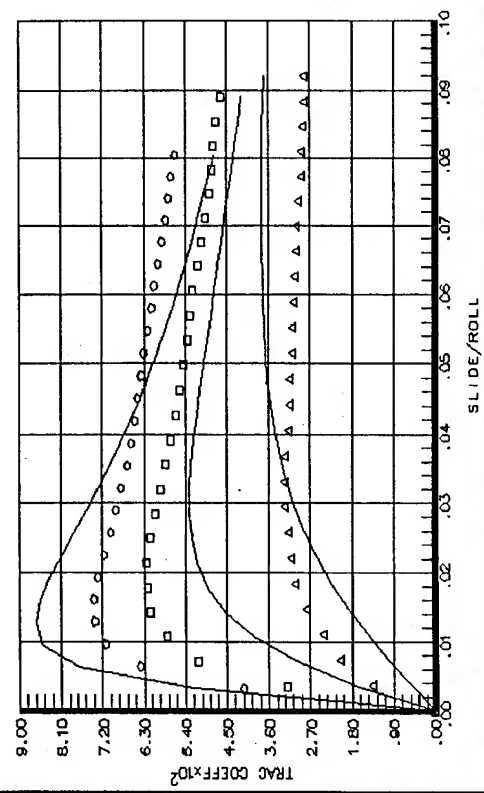
BN 90-629 Krytox 143ab
 NEWTONIAN MODEL TYPE 1
 BNL0.dat
 85N 20.32N/S 339K # 15 2.374E+00 5.500E-09 3.644E-02 BETA*
 290N 20.32N/S 339K # 17 2.374E+00 5.500E-09 3.644E-02
 685N 20.32N/S 339K # 18 2.374E+00 5.500E-09 3.644E-02
 683MPA 85N 20.32N/S 339K # 15 2.374E+00 5.500E-09 3.644E-02
 988MPA 290N 20.32N/S 339K # 17 2.374E+00 5.500E-09 3.644E-02
 1329MPA 685N 20.32N/S 339K # 18 2.374E+00 5.500E-09 3.644E-02



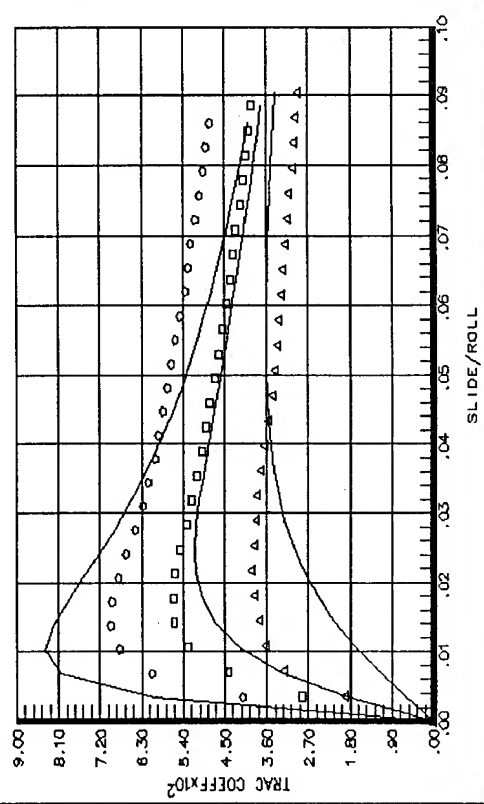
BN 90-629 Krytox 143ab
 NEWTONIAN MODEL TYPE 1
 BNL0.dat
 85N 10.16M/S 367K # 82 1.507E+00 5.500E-09 1.136E-01 BETA*
 290N 10.16M/S 367K # 83 1.507E+00 5.500E-09 1.136E-01
 685N 10.16M/S 367K # 84 1.507E+00 5.500E-09 1.136E-01
 683MPA 85N 10.16M/S 367K # 82 1.507E+00 5.500E-09 1.136E-01
 988MPA 290N 10.16M/S 367K # 83 1.507E+00 5.500E-09 1.136E-01
 1329MPA 685N 10.16M/S 367K # 84 1.507E+00 5.500E-09 1.136E-01



BN 90-629 Krytox 143ab
 NEWTONIAN MODEL TYPE 1
 BNL0.dat
 85N 15.24N/S 367K # 85 1.243E+00 5.500E-09 7.261E-02 BETA*
 290N 15.24N/S 367K # 86 1.243E+00 5.500E-09 7.261E-02
 685N 15.24N/S 367K # 87 1.243E+00 5.500E-09 7.261E-02
 683MPA 85N 15.24N/S 367K # 85 1.243E+00 5.500E-09 7.261E-02
 988MPA 290N 15.24N/S 367K # 86 1.243E+00 5.500E-09 7.261E-02
 1329MPA 685N 15.24N/S 367K # 87 1.243E+00 5.500E-09 7.261E-02



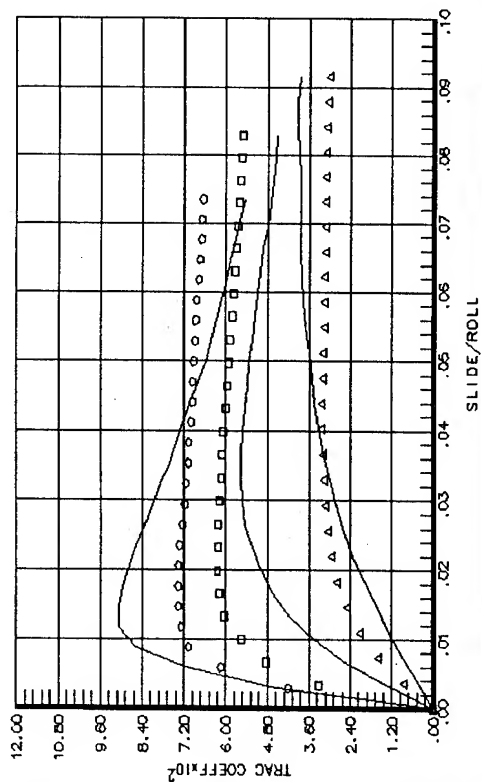
BN 90-629 Krytox 143ab
 NEWTONIAN MODEL TYPE 1
 BNL0.dat
 85N 20.32M/S 367K # 88 1.288E+00 5.500E-09 6.251E-02 BETA*
 290N 20.32M/S 367K # 89 1.288E+00 5.500E-09 6.251E-02
 685N 20.32M/S 367K # 90 1.288E+00 5.500E-09 6.251E-02
 683MPA 85N 20.32M/S 367K # 88 1.288E+00 5.500E-09 6.251E-02
 988MPA 290N 20.32M/S 367K # 89 1.288E+00 5.500E-09 6.251E-02
 1329MPA 685N 20.32M/S 367K # 90 1.288E+00 5.500E-09 6.251E-02



BN 90-629 Krytox 143ab

NEWTONIAN MODEL TYPE 1 bn23.dat

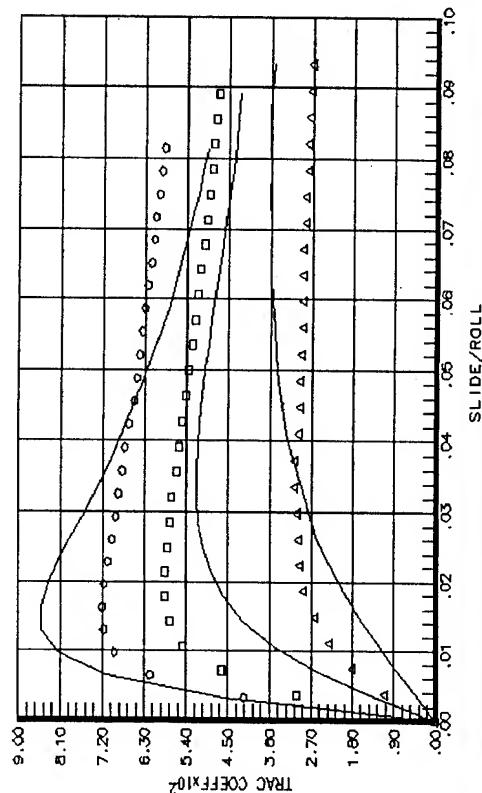
	BN	15.24M/S 394K #103	4.795E-01	ALFA*	BETA*
Δ	663MPa	290N	10.16M/S 394K #101	5.500E-01	2.559E-01
□	998MPa	685N	10.16M/S 394K #102	5.500E-01	2.559E-01
○	1329MPa				



BN 90-629 Krytox 143ab

NEWTONIAN MODEL TYPE 1 bn24.dat

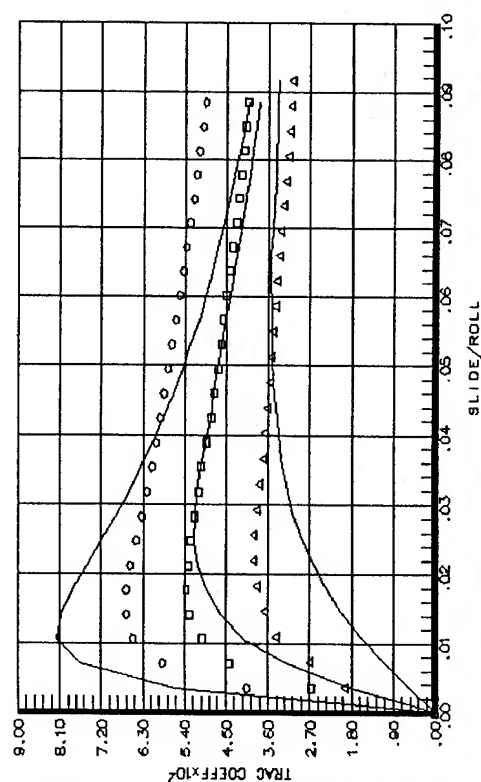
	BN	15.24M/S 394K #103	4.795E-01	ALFA*	BETA*
Δ	663MPa	290N	10.16M/S 394K #104	5.500E-01	1.404E-01
□	998MPa	685N	10.16M/S 394K #105	5.500E-01	1.404E-01
○	1329MPa				



BN 90-629 Krytox 143ab

NEWTONIAN MODEL TYPE 1 bn25.dat

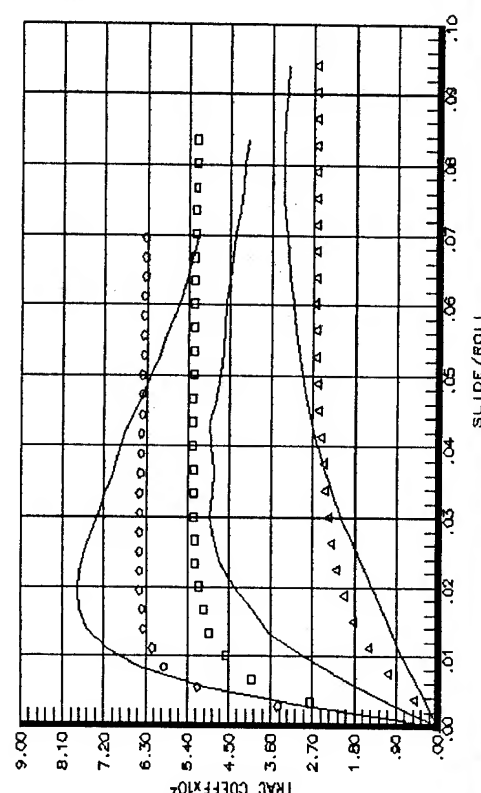
	BN	20.32M/S 394K #106	5.817E-01 <th>ALFA*</th> <th>BETA*</th>	ALFA*	BETA*
Δ	663MPa	290N	20.32M/S 394K #107	5.500E-01	1.206E-01
□	998MPa	685N	20.32M/S 394K #108	5.500E-01	1.206E-01
○	1329MPa				



BN 90-629 Krytox 143ab

NEWTONIAN MODEL TYPE 1 bn26.dat

	BN	10.16M/S 422K #118 <th>1.823E-01 <th>ALFA*</th> <th>BETA*</th> </th>	1.823E-01 <th>ALFA*</th> <th>BETA*</th>	ALFA*	BETA*
Δ	663MPa	290N	10.16M/S 422K #119	5.500E-01	4.802E-01
□	998MPa	685N	10.16M/S 422K #120	5.500E-01	4.802E-01
○	1329MPa				

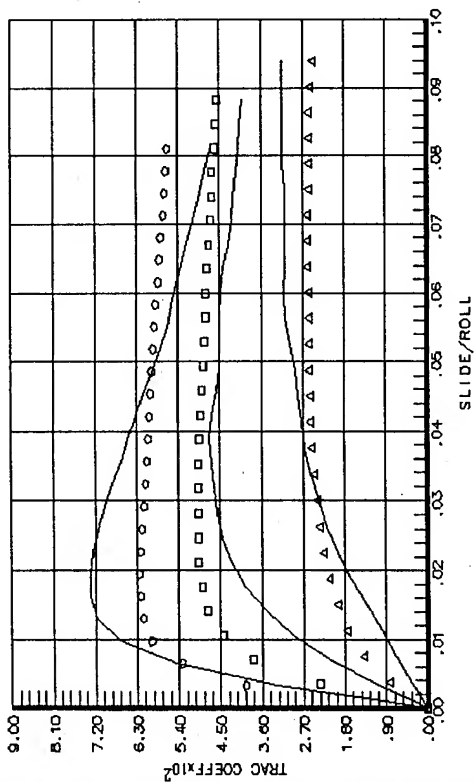


BN 90-629 Krytox 143ab

NEWTONIAN MODEL

TYPE 1

85N 15.24M/S 422K #121 1.98E-01 ALFA* BETA*
 290N 15.24M/S 422K #122 1.98E-01 5.50E-09 2.767E-01
 685N 15.24M/S 422K #123 1.98E-01 5.50E-09 2.767E-01

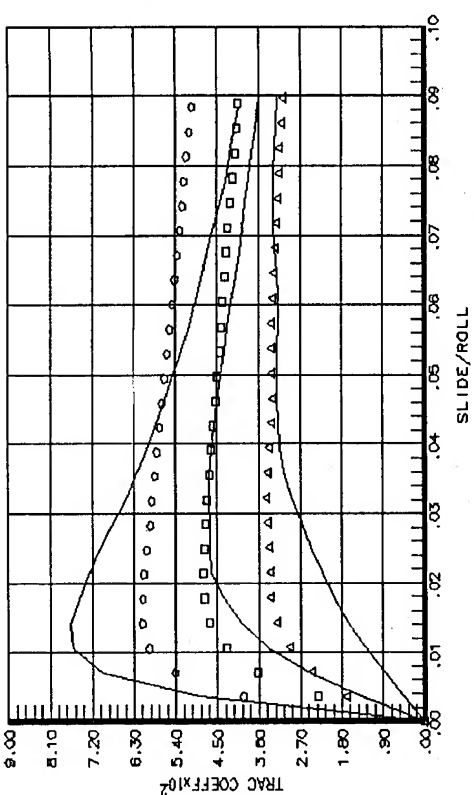


BN 90-629 Krytox 143ab

NEWTONIAN MODEL

TYPE 1

85N 20.32M/S 422K #124 2.48E-01 ALFA* BETA*
 290N 20.32M/S 422K #125 2.48E-01 5.50E-09 2.288E-01
 685N 20.32M/S 422K #126 2.48E-01 5.50E-09 2.288E-01



3. Traction Data Set B: 71-6 Krytox 143ac

Data set name: CB 71-6 Krytox 143 ac
 Rolling radii [Disks 1 & 2] (in): 0.75 0.75
 Crown radii [Disks 1 & 2] (in): 0.91 0.98

Number of data sets found = 486

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
1	80.00	0.43	4826.00	5334.00	5080.00	100	71-6-01x #1
2	80.00	1.42	4826.00	5334.00	5080.00	100	71-6-01x #2
3	80.00	3.34	4826.00	5334.00	5080.00	100	71-6-01x #3
4	80.00	11.29	4826.00	5334.00	5080.00	100	71-6-01x #4
5	80.00	26.84	4826.00	5334.00	5080.00	100	71-6-01x #5
6	80.00	52.40	4826.00	5334.00	5080.00	100	71-6-01x #6
7	80.00	90.53	4826.00	5334.00	5080.00	100	71-6-01x #7
8	80.00	0.43	7259.00	8019.00	7639.00	100	71-6-01x #8
9	80.00	1.42	7259.00	8019.00	7639.00	100	71-6-01x #9
10	80.00	3.34	7259.00	8019.00	7639.00	100	71-6-01x #10
11	80.00	11.29	7259.00	8019.00	7639.00	100	71-6-01x #11
12	80.00	26.84	7259.00	8019.00	7639.00	100	71-6-01x #12
13	80.00	52.40	7259.00	8019.00	7639.00	100	71-6-01x #13
14	80.00	90.53	7259.00	8019.00	7639.00	100	71-6-01x #14
15	80.00	0.43	9688.00	10708.00	10198.00	100	71-6-01x #15
16	80.00	1.42	9688.00	10708.00	10198.00	100	71-6-01x #16
17	80.00	3.34	9688.00	10708.00	10198.00	100	71-6-01x #17
18	80.00	11.29	9688.00	10708.00	10198.00	100	71-6-01x #18
19	80.00	26.84	9688.00	10708.00	10198.00	100	71-6-01x #19
20	80.00	52.40	9688.00	10708.00	10198.00	100	71-6-01x #20
21	80.00	90.53	9688.00	10708.00	10198.00	100	71-6-01x #21
22	80.00	0.43	4826.00	5334.00	5080.00	100	71-6-01y #1
23	80.00	1.42	4826.00	5334.00	5080.00	100	71-6-01y #2
24	80.00	3.34	4826.00	5334.00	5080.00	100	71-6-01y #3
25	80.00	11.29	4826.00	5334.00	5080.00	100	71-6-01y #4
26	80.00	26.84	4826.00	5334.00	5080.00	100	71-6-01y #5
27	80.00	52.40	4826.00	5334.00	5080.00	100	71-6-01y #6
28	80.00	90.53	4826.00	5334.00	5080.00	100	71-6-01y #7
29	80.00	0.43	7259.00	8019.00	7639.00	100	71-6-01y #8
30	80.00	1.42	7259.00	8019.00	7639.00	100	71-6-01y #9
31	80.00	3.34	7259.00	8019.00	7639.00	100	71-6-01y #10
32	80.00	11.29	7259.00	8019.00	7639.00	100	71-6-01y #11
33	80.00	26.84	7259.00	8019.00	7639.00	100	71-6-01y #12
34	80.00	52.40	7259.00	8019.00	7639.00	100	71-6-01y #13
35	80.00	90.53	7259.00	8019.00	7639.00	100	71-6-01y #14
36	80.00	0.43	9688.00	10708.00	10198.00	100	71-6-01y #15
37	80.00	1.42	9688.00	10708.00	10198.00	100	71-6-01y #16
38	80.00	3.34	9688.00	10708.00	10198.00	100	71-6-01y #17
39	80.00	11.29	9688.00	10708.00	10198.00	100	71-6-01y #18
40	80.00	26.84	9688.00	10708.00	10198.00	100	71-6-01y #19
41	80.00	52.40	9688.00	10708.00	10198.00	100	71-6-01y #20
42	80.00	90.53	9688.00	10708.00	10198.00	100	71-6-01y #21
43	100.00	0.43	4826.00	5334.00	5080.00	100	71-6-02 #1
44	100.00	1.42	4826.00	5334.00	5080.00	100	71-6-02 #2
45	100.00	3.34	4826.00	5334.00	5080.00	100	71-6-02 #3
46	100.00	11.29	4826.00	5334.00	5080.00	100	71-6-02 #4
47	100.00	26.84	4826.00	5334.00	5080.00	100	71-6-02 #5
48	100.00	52.40	4826.00	5334.00	5080.00	100	71-6-02 #6
49	100.00	90.53	4826.00	5334.00	5080.00	100	71-6-02 #7
50	100.00	0.43	7259.00	8019.00	7639.00	100	71-6-02 #8

Data set: CB 71-6 Krytox 143 accontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
51	100.00	1.42	7259.00	8019.00	7639.00	100	71-6-02 #9
52	100.00	3.34	7259.00	8019.00	7639.00	100	71-6-02 #10
53	100.00	11.29	7259.00	8019.00	7639.00	100	71-6-02 #11
54	100.00	26.84	7259.00	8019.00	7639.00	100	71-6-02 #12
55	100.00	52.40	7259.00	8019.00	7639.00	100	71-6-02 #13
56	100.00	90.53	7259.00	8019.00	7639.00	100	71-6-02 #14
57	100.00	0.43	9688.00	10708.00	10198.00	100	71-6-02 #15
58	100.00	1.42	9688.00	10708.00	10198.00	100	71-6-02 #16
59	100.00	3.34	9688.00	10708.00	10198.00	100	71-6-02 #17
60	100.00	11.29	9688.00	10708.00	10198.00	100	71-6-02 #18
61	100.00	26.84	9688.00	10708.00	10198.00	100	71-6-02 #19
62	100.00	52.40	9688.00	10708.00	10198.00	100	71-6-02 #20
63	100.00	90.53	9688.00	10708.00	10198.00	100	71-6-02 #21
64	150.00	0.43	4826.00	5334.00	5080.00	100	71-6-03 #1
65	150.00	1.42	4826.00	5334.00	5080.00	100	71-6-03 #2
66	150.00	3.34	4826.00	5334.00	5080.00	100	71-6-03 #3
67	150.00	11.29	4826.00	5334.00	5080.00	100	71-6-03 #4
68	150.00	26.84	4826.00	5334.00	5080.00	100	71-6-03 #5
69	150.00	52.40	4826.00	5334.00	5080.00	100	71-6-03 #6
70	150.00	90.53	4826.00	5334.00	5080.00	100	71-6-03 #7
71	150.00	0.43	7259.00	8019.00	7639.00	100	71-6-03 #8
72	150.00	1.42	7259.00	8019.00	7639.00	100	71-6-03 #9
73	150.00	3.34	7259.00	8019.00	7639.00	100	71-6-03 #10
74	150.00	11.29	7259.00	8019.00	7639.00	100	71-6-03 #11
75	150.00	26.84	7259.00	8019.00	7639.00	100	71-6-03 #12
76	150.00	52.40	7259.00	8019.00	7639.00	100	71-6-03 #13
77	150.00	90.53	7259.00	8019.00	7639.00	100	71-6-03 #14
78	150.00	0.43	9688.00	10708.00	10198.00	100	71-6-03 #15
79	150.00	1.42	9688.00	10708.00	10198.00	100	71-6-03 #16
80	150.00	3.34	9688.00	10708.00	10198.00	100	71-6-03 #17
81	150.00	11.29	9688.00	10708.00	10198.00	100	71-6-03 #18
82	150.00	26.84	9688.00	10708.00	10198.00	100	71-6-03 #19
83	150.00	52.40	9688.00	10708.00	10198.00	100	71-6-03 #20
84	150.00	90.53	9688.00	10708.00	10198.00	100	71-6-03 #21
85	200.00	0.43	4826.00	5334.00	5080.00	100	71-6-04 #1
86	200.00	1.42	4826.00	5334.00	5080.00	100	71-6-04 #2
87	200.00	3.34	4826.00	5334.00	5080.00	100	71-6-04 #3
88	200.00	11.29	4826.00	5334.00	5080.00	100	71-6-04 #4
89	200.00	26.84	4826.00	5334.00	5080.00	100	71-6-04 #5
90	200.00	52.40	4826.00	5334.00	5080.00	100	71-6-04 #6
91	200.00	90.53	4826.00	5334.00	5080.00	100	71-6-04 #7
92	200.00	0.43	7259.00	8019.00	7639.00	100	71-6-04 #8
93	200.00	1.42	7259.00	8019.00	7639.00	100	71-6-04 #9
94	200.00	3.34	7259.00	8019.00	7639.00	100	71-6-04 #10
95	200.00	11.29	7259.00	8019.00	7639.00	100	71-6-04 #11
96	200.00	26.84	7259.00	8019.00	7639.00	100	71-6-04 #12
97	200.00	52.40	7259.00	8019.00	7639.00	100	71-6-04 #13
98	200.00	90.53	7259.00	8019.00	7639.00	100	71-6-04 #14
99	200.00	0.43	9688.00	10708.00	10198.00	100	71-6-04 #15
100	200.00	1.42	9688.00	10708.00	10198.00	100	71-6-04 #16
101	200.00	3.34	9688.00	10708.00	10198.00	100	71-6-04 #17
102	200.00	11.29	9688.00	10708.00	10198.00	100	71-6-04 #18
103	200.00	26.84	9688.00	10708.00	10198.00	100	71-6-04 #19
104	200.00	52.40	9688.00	10708.00	10198.00	100	71-6-04 #20
105	200.00	90.53	9688.00	10708.00	10198.00	100	71-6-04 #21
106	250.00	0.43	4826.00	5334.00	5080.00	100	71-6-05 #1
107	250.00	1.42	4826.00	5334.00	5080.00	100	71-6-05 #2
108	250.00	3.34	4826.00	5334.00	5080.00	100	71-6-05 #3
109	250.00	11.29	4826.00	5334.00	5080.00	100	71-6-05 #4
110	250.00	26.84	4826.00	5334.00	5080.00	100	71-6-05 #5
111	250.00	52.40	4826.00	5334.00	5080.00	100	71-6-05 #6
112	250.00	90.53	4826.00	5334.00	5080.00	100	71-6-05 #7
113	250.00	0.43	7259.00	8019.00	7639.00	100	71-6-05 #8
114	250.00	1.42	7259.00	8019.00	7639.00	100	71-6-05 #9
115	250.00	3.34	7259.00	8019.00	7639.00	100	71-6-05 #10
116	250.00	11.29	7259.00	8019.00	7639.00	100	71-6-05 #11
117	250.00	26.84	7259.00	8019.00	7639.00	100	71-6-05 #12
118	250.00	52.40	7259.00	8019.00	7639.00	100	71-6-05 #13
119	250.00	90.53	7259.00	8019.00	7639.00	100	71-6-05 #14
120	250.00	0.43	9688.00	10708.00	10198.00	100	71-6-05 #15

Data set: CB 71-6 Krytox 143 accontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
121	250.00	1.42	9688.00	10708.00	10198.00	100	71-6-05 #16
122	250.00	3.34	9688.00	10708.00	10198.00	100	71-6-05 #17
123	250.00	11.29	9688.00	10708.00	10198.00	100	71-6-05 #18
124	250.00	26.84	9688.00	10708.00	10198.00	100	71-6-05 #19
125	250.00	52.40	9688.00	10708.00	10198.00	100	71-6-05 #20
126	250.00	90.53	9688.00	10708.00	10198.00	100	71-6-05 #21
127	250.00	52.40	4826.00	5334.00	5080.00	100	71-6-05x #1
128	250.00	90.53	4826.00	5334.00	5080.00	100	71-6-05x #2
129	250.00	52.40	7259.00	8019.00	7639.00	100	71-6-05x #3
130	250.00	90.53	7259.00	8019.00	7639.00	100	71-6-05x #4
131	250.00	52.40	9688.00	10708.00	10198.00	100	71-6-05x #5
132	250.00	90.53	9688.00	10708.00	10198.00	100	71-6-05x #6
133	300.00	0.43	4826.00	5334.00	5080.00	100	71-6-06 #1
134	300.00	1.42	4826.00	5334.00	5080.00	100	71-6-06 #2
135	300.00	3.34	4826.00	5334.00	5080.00	100	71-6-06 #3
136	300.00	11.29	4826.00	5334.00	5080.00	100	71-6-06 #4
137	300.00	26.84	4826.00	5334.00	5080.00	100	71-6-06 #5
138	300.00	52.40	4826.00	5334.00	5080.00	100	71-6-06 #6
139	300.00	90.53	4826.00	5334.00	5080.00	100	71-6-06 #7
140	300.00	0.43	7259.00	8019.00	7639.00	100	71-6-06 #8
141	300.00	1.42	7259.00	8019.00	7639.00	100	71-6-06 #9
142	300.00	3.34	7259.00	8019.00	7639.00	100	71-6-06 #10
143	300.00	11.29	7259.00	8019.00	7639.00	100	71-6-06 #11
144	300.00	26.84	7259.00	8019.00	7639.00	100	71-6-06 #12
145	300.00	52.40	7259.00	8019.00	7639.00	100	71-6-06 #13
146	300.00	90.53	7259.00	8019.00	7639.00	100	71-6-06 #14
147	300.00	0.43	9688.00	10708.00	10198.00	100	71-6-06 #15
148	300.00	1.42	9688.00	10708.00	10198.00	100	71-6-06 #16
149	300.00	3.34	9688.00	10708.00	10198.00	100	71-6-06 #17
150	300.00	11.29	9688.00	10708.00	10198.00	100	71-6-06 #18
151	300.00	26.84	9688.00	10708.00	10198.00	100	71-6-06 #19
152	300.00	52.40	9688.00	10708.00	10198.00	100	71-6-06 #20
153	300.00	90.53	9688.00	10708.00	10198.00	100	71-6-06 #21
154	80.00	0.43	72.00	80.00	76.00	100	71-6-07 #1
155	80.00	1.42	72.00	80.00	76.00	100	71-6-07 #2
156	80.00	3.34	72.00	80.00	76.00	100	71-6-07 #3
157	80.00	11.36	72.00	80.00	76.00	100	71-6-07 #4
158	80.00	26.84	72.00	80.00	76.00	100	71-6-07 #5
159	80.00	52.40	72.00	80.00	76.00	100	71-6-07 #6
160	80.00	88.40	72.00	80.00	76.00	100	71-6-07 #7
161	80.00	0.43	144.00	160.00	152.00	100	71-6-07 #8
162	80.00	1.42	144.00	160.00	152.00	100	71-6-07 #9
163	80.00	3.34	144.00	160.00	152.00	100	71-6-07 #10
164	80.00	11.36	144.00	160.00	152.00	100	71-6-07 #11
165	80.00	26.84	144.00	160.00	152.00	100	71-6-07 #12
166	80.00	52.40	144.00	160.00	152.00	100	71-6-07 #13
167	80.00	88.40	144.00	160.00	152.00	100	71-6-07 #14
168	80.00	0.43	325.00	360.00	342.50	100	71-6-07 #15
169	80.00	1.42	325.00	360.00	342.50	100	71-6-07 #16
170	80.00	3.34	325.00	360.00	342.50	100	71-6-07 #17
171	80.00	11.36	325.00	360.00	342.50	100	71-6-07 #18
172	80.00	26.84	325.00	360.00	342.50	100	71-6-07 #19
173	80.00	52.40	325.00	360.00	342.50	100	71-6-07 #20
174	80.00	88.40	325.00	360.00	342.50	100	71-6-07 #21
175	80.00	0.43	617.00	682.00	649.50	100	71-6-07 #22
176	80.00	1.42	617.00	682.00	649.50	100	71-6-07 #23
177	80.00	3.34	617.00	682.00	649.50	100	71-6-07 #24
178	80.00	11.36	617.00	682.00	649.50	100	71-6-07 #25
179	80.00	26.84	617.00	682.00	649.50	100	71-6-07 #26
180	80.00	52.40	617.00	682.00	649.50	100	71-6-07 #27
181	80.00	88.40	617.00	682.00	649.50	100	71-6-07 #28
182	80.00	0.43	1197.00	1323.00	1260.00	100	71-6-07 #29
183	80.00	1.42	1197.00	1323.00	1260.00	100	71-6-07 #30
184	80.00	3.34	1197.00	1323.00	1260.00	100	71-6-07 #31
185	80.00	11.36	1197.00	1323.00	1260.00	100	71-6-07 #32
186	80.00	26.84	1197.00	1323.00	1260.00	100	71-6-07 #33
187	80.00	52.40	1197.00	1323.00	1260.00	100	71-6-07 #34
188	80.00	88.40	1197.00	1323.00	1260.00	100	71-6-07 #35
189	80.00	0.43	2431.00	2687.00	2559.00	100	71-6-07 #36
190	80.00	1.42	2431.00	2687.00	2559.00	100	71-6-07 #37

Data set: Cl 71-6 Krytox 143 accontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
191	80.00	3.34	2431.00	2687.00	2559.00	100	71-6-07 #38
192	80.00	11.36	2431.00	2687.00	2559.00	100	71-6-07 #39
193	80.00	26.84	2431.00	2687.00	2559.00	100	71-6-07 #40
194	80.00	52.40	2431.00	2687.00	2559.00	100	71-6-07 #41
195	80.00	88.40	2431.00	2687.00	2559.00	100	71-6-07 #42
196	100.00	26.84	2000.00	2650.00	2325.00	100	71-6-07x #1
197	100.00	90.53	2000.00	2650.00	2325.00	100	71-6-07x #2
198	100.00	0.43	72.00	80.00	76.00	100	71-6-08 #1
199	100.00	1.42	72.00	80.00	76.00	100	71-6-08 #2
200	100.00	3.34	72.00	80.00	76.00	100	71-6-08 #3
201	100.00	11.36	72.00	80.00	76.00	100	71-6-08 #4
202	100.00	26.84	72.00	80.00	76.00	100	71-6-08 #5
203	100.00	52.40	72.00	80.00	76.00	100	71-6-08 #6
204	100.00	88.40	72.00	80.00	76.00	100	71-6-08 #7
205	100.00	0.43	144.00	160.00	152.00	100	71-6-08 #8
206	100.00	1.42	144.00	160.00	152.00	100	71-6-08 #9
207	100.00	3.34	144.00	160.00	152.00	100	71-6-08 #10
208	100.00	11.36	144.00	160.00	152.00	100	71-6-08 #11
209	100.00	26.84	144.00	160.00	152.00	100	71-6-08 #12
210	100.00	52.40	144.00	160.00	152.00	100	71-6-08 #13
211	100.00	88.40	144.00	160.00	152.00	100	71-6-08 #14
212	100.00	0.43	325.00	360.00	342.50	100	71-6-08 #15
213	100.00	1.42	325.00	360.00	342.50	100	71-6-08 #16
214	100.00	3.34	325.00	360.00	342.50	100	71-6-08 #17
215	100.00	11.36	325.00	360.00	342.50	100	71-6-08 #18
216	100.00	26.84	325.00	360.00	342.50	100	71-6-08 #19
217	100.00	52.40	325.00	360.00	342.50	100	71-6-08 #20
218	100.00	88.40	325.00	360.00	342.50	100	71-6-08 #21
219	100.00	0.43	617.00	682.00	649.50	100	71-6-08 #22
220	100.00	1.42	617.00	682.00	649.50	100	71-6-08 #23
221	100.00	3.34	617.00	682.00	649.50	100	71-6-08 #24
222	100.00	11.36	617.00	682.00	649.50	100	71-6-08 #25
223	100.00	26.84	617.00	682.00	649.50	100	71-6-08 #26
224	100.00	52.40	617.00	682.00	649.50	100	71-6-08 #27
225	100.00	88.40	617.00	682.00	649.50	100	71-6-08 #28
226	100.00	0.43	1197.00	1323.00	1260.00	100	71-6-08 #29
227	100.00	1.42	1197.00	1323.00	1260.00	100	71-6-08 #30
228	100.00	3.34	1197.00	1323.00	1260.00	100	71-6-08 #31
229	100.00	11.36	1197.00	1323.00	1260.00	100	71-6-08 #32
230	100.00	26.84	1197.00	1323.00	1260.00	100	71-6-08 #33
231	100.00	52.40	1197.00	1323.00	1260.00	100	71-6-08 #34
232	100.00	88.40	1197.00	1323.00	1260.00	100	71-6-08 #35
233	100.00	0.43	2431.00	2687.00	2559.00	100	71-6-08 #36
234	100.00	1.42	2431.00	2687.00	2559.00	100	71-6-08 #37
235	100.00	3.34	2431.00	2687.00	2559.00	100	71-6-08 #38
236	100.00	11.36	2431.00	2687.00	2559.00	100	71-6-08 #39
237	100.00	26.84	2431.00	2687.00	2559.00	100	71-6-08 #40
238	100.00	52.40	2431.00	2687.00	2559.00	100	71-6-08 #41
239	100.00	88.40	2431.00	2687.00	2559.00	100	71-6-08 #42
240	150.00	0.43	72.00	80.00	76.00	100	71-6-09 #1
241	150.00	1.42	72.00	80.00	76.00	100	71-6-09 #2
242	150.00	3.34	72.00	80.00	76.00	100	71-6-09 #3
243	150.00	11.36	72.00	80.00	76.00	100	71-6-09 #4
244	150.00	26.84	72.00	80.00	76.00	100	71-6-09 #5
245	150.00	52.40	72.00	80.00	76.00	100	71-6-09 #6
246	150.00	88.40	72.00	80.00	76.00	100	71-6-09 #7
247	150.00	0.43	144.00	160.00	152.00	100	71-6-09 #8
248	150.00	1.42	144.00	160.00	152.00	100	71-6-09 #9
249	150.00	3.34	144.00	160.00	152.00	100	71-6-09 #10
250	150.00	11.36	144.00	160.00	152.00	100	71-6-09 #11
251	150.00	26.84	144.00	160.00	152.00	100	71-6-09 #12
252	150.00	52.40	144.00	160.00	152.00	100	71-6-09 #13
253	150.00	88.40	144.00	160.00	152.00	100	71-6-09 #14
254	150.00	0.43	325.00	360.00	342.50	100	71-6-09 #15
255	150.00	1.42	325.00	360.00	342.50	100	71-6-09 #16
256	150.00	3.34	325.00	360.00	342.50	100	71-6-09 #17
257	150.00	11.36	325.00	360.00	342.50	100	71-6-09 #18
258	150.00	26.84	325.00	360.00	342.50	100	71-6-09 #19
259	150.00	52.40	325.00	360.00	342.50	100	71-6-09 #20
260	150.00	88.40	325.00	360.00	342.50	100	71-6-09 #21

Data set: CB 71-6 Krytox 143 accontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
261	150.00	0.43	617.00	682.00	649.50	100	71-6-09 #22
262	150.00	1.42	617.00	682.00	649.50	100	71-6-09 #23
263	150.00	3.34	617.00	682.00	649.50	100	71-6-09 #24
264	150.00	11.36	617.00	682.00	649.50	100	71-6-09 #25
265	150.00	26.84	617.00	682.00	649.50	100	71-6-09 #26
266	150.00	52.40	617.00	682.00	649.50	100	71-6-09 #27
267	150.00	88.40	617.00	682.00	649.50	100	71-6-09 #28
268	150.00	0.43	1197.00	1323.00	1260.00	100	71-6-09 #29
269	150.00	1.42	1197.00	1323.00	1260.00	100	71-6-09 #30
270	150.00	3.34	1197.00	1323.00	1260.00	100	71-6-09 #31
271	150.00	11.36	1197.00	1323.00	1260.00	100	71-6-09 #32
272	150.00	26.84	1197.00	1323.00	1260.00	100	71-6-09 #33
273	150.00	52.40	1197.00	1323.00	1260.00	100	71-6-09 #34
274	150.00	88.40	1197.00	1323.00	1260.00	100	71-6-09 #35
275	150.00	0.43	2431.00	2687.00	2559.00	100	71-6-09 #36
276	150.00	1.42	2431.00	2687.00	2559.00	100	71-6-09 #37
277	150.00	3.34	2431.00	2687.00	2559.00	100	71-6-09 #38
278	150.00	11.36	2431.00	2687.00	2559.00	100	71-6-09 #39
279	150.00	26.84	2431.00	2687.00	2559.00	100	71-6-09 #40
280	150.00	52.40	2431.00	2687.00	2559.00	100	71-6-09 #41
281	150.00	88.40	2431.00	2687.00	2559.00	100	71-6-09 #42
282	200.00	0.43	72.00	80.00	76.00	100	71-6-10 #1
283	200.00	1.42	72.00	80.00	76.00	100	71-6-10 #2
284	200.00	3.34	72.00	80.00	76.00	100	71-6-10 #3
285	200.00	11.36	72.00	80.00	76.00	100	71-6-10 #4
286	200.00	26.84	72.00	80.00	76.00	100	71-6-10 #5
287	200.00	52.40	72.00	80.00	76.00	100	71-6-10 #6
288	200.00	88.40	72.00	80.00	76.00	100	71-6-10 #7
289	200.00	0.43	144.00	160.00	152.00	100	71-6-10 #8
290	200.00	1.42	144.00	160.00	152.00	100	71-6-10 #9
291	200.00	3.34	144.00	160.00	152.00	100	71-6-10 #10
292	200.00	11.36	144.00	160.00	152.00	100	71-6-10 #11
293	200.00	26.84	144.00	160.00	152.00	100	71-6-10 #12
294	200.00	52.40	144.00	160.00	152.00	100	71-6-10 #13
295	200.00	88.40	144.00	160.00	152.00	100	71-6-10 #14
296	200.00	0.43	325.00	360.00	342.50	100	71-6-10 #15
297	200.00	1.42	325.00	360.00	342.50	100	71-6-10 #16
298	200.00	3.34	325.00	360.00	342.50	100	71-6-10 #17
299	200.00	11.36	325.00	360.00	342.50	100	71-6-10 #18
300	200.00	26.84	325.00	360.00	342.50	100	71-6-10 #19
301	200.00	52.40	325.00	360.00	342.50	100	71-6-10 #20
302	200.00	88.40	325.00	360.00	342.50	100	71-6-10 #21
303	200.00	0.43	617.00	682.00	649.50	100	71-6-10 #22
304	200.00	1.42	617.00	682.00	649.50	100	71-6-10 #23
305	200.00	3.34	617.00	682.00	649.50	100	71-6-10 #24
306	200.00	11.36	617.00	682.00	649.50	100	71-6-10 #25
307	200.00	26.84	617.00	682.00	649.50	100	71-6-10 #26
308	200.00	52.40	617.00	682.00	649.50	100	71-6-10 #27
309	200.00	88.40	617.00	682.00	649.50	100	71-6-10 #28
310	200.00	0.43	1197.00	1323.00	1260.00	100	71-6-10 #29
311	200.00	1.42	1197.00	1323.00	1260.00	100	71-6-10 #30
312	200.00	3.34	1197.00	1323.00	1260.00	100	71-6-10 #31
313	200.00	11.36	1197.00	1323.00	1260.00	100	71-6-10 #32
314	200.00	26.84	1197.00	1323.00	1260.00	100	71-6-10 #33
315	200.00	52.40	1197.00	1323.00	1260.00	100	71-6-10 #34
316	200.00	88.40	1197.00	1323.00	1260.00	100	71-6-10 #35
317	200.00	0.43	2431.00	2687.00	2559.00	100	71-6-10 #36
318	200.00	1.42	2431.00	2687.00	2559.00	100	71-6-10 #37
319	200.00	3.34	2431.00	2687.00	2559.00	100	71-6-10 #38
320	200.00	11.36	2431.00	2687.00	2559.00	100	71-6-10 #39
321	200.00	26.84	2431.00	2687.00	2559.00	100	71-6-10 #40
322	200.00	52.40	2431.00	2687.00	2559.00	100	71-6-10 #41
323	200.00	88.40	2431.00	2687.00	2559.00	100	71-6-10 #42
324	250.00	0.43	72.00	80.00	76.00	100	71-6-11 #1
325	250.00	1.42	72.00	80.00	76.00	100	71-6-11 #2
326	250.00	3.34	72.00	80.00	76.00	100	71-6-11 #3
327	250.00	11.36	72.00	80.00	76.00	100	71-6-11 #4
328	250.00	26.84	72.00	80.00	76.00	100	71-6-11 #5
329	250.00	52.40	72.00	80.00	76.00	100	71-6-11 #6
330	250.00	88.40	72.00	80.00	76.00	100	71-6-11 #7

Data set: CB 71-6 Krytox 143 accontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
331	250.00	0.43	144.00	160.00	152.00	100	71-6-11 #8
332	250.00	1.42	144.00	160.00	152.00	100	71-6-11 #9
333	250.00	3.34	144.00	160.00	152.00	100	71-6-11 #10
334	250.00	11.36	144.00	160.00	152.00	100	71-6-11 #11
335	250.00	26.84	144.00	160.00	152.00	100	71-6-11 #12
336	250.00	52.40	144.00	160.00	152.00	100	71-6-11 #13
337	250.00	88.40	144.00	160.00	152.00	100	71-6-11 #14
338	250.00	0.43	325.00	360.00	342.50	100	71-6-11 #15
339	250.00	1.42	325.00	360.00	342.50	100	71-6-11 #16
340	250.00	3.34	325.00	360.00	342.50	100	71-6-11 #17
341	250.00	11.36	325.00	360.00	342.50	100	71-6-11 #18
342	250.00	26.84	325.00	360.00	342.50	100	71-6-11 #19
343	250.00	52.40	325.00	360.00	342.50	100	71-6-11 #20
344	250.00	88.40	325.00	360.00	342.50	100	71-6-11 #21
345	250.00	0.43	617.00	682.00	649.50	100	71-6-11 #22
346	250.00	1.42	617.00	682.00	649.50	100	71-6-11 #23
347	250.00	3.34	617.00	682.00	649.50	100	71-6-11 #24
348	250.00	11.36	617.00	682.00	649.50	100	71-6-11 #25
349	250.00	26.84	617.00	682.00	649.50	100	71-6-11 #26
350	250.00	52.40	617.00	682.00	649.50	100	71-6-11 #27
351	250.00	88.40	617.00	682.00	649.50	100	71-6-11 #28
352	250.00	0.43	1197.00	1323.00	1260.00	100	71-6-11 #29
353	250.00	1.42	1197.00	1323.00	1260.00	100	71-6-11 #30
354	250.00	3.34	1197.00	1323.00	1260.00	100	71-6-11 #31
355	250.00	11.36	1197.00	1323.00	1260.00	100	71-6-11 #32
356	250.00	26.84	1197.00	1323.00	1260.00	100	71-6-11 #33
357	250.00	52.40	1197.00	1323.00	1260.00	100	71-6-11 #34
358	250.00	88.40	1197.00	1323.00	1260.00	100	71-6-11 #35
359	250.00	0.43	2431.00	2687.00	2559.00	100	71-6-11 #36
360	250.00	1.42	2431.00	2687.00	2559.00	100	71-6-11 #37
361	250.00	3.34	2431.00	2687.00	2559.00	100	71-6-11 #38
362	250.00	11.36	2431.00	2687.00	2559.00	100	71-6-11 #39
363	250.00	26.84	2431.00	2687.00	2559.00	100	71-6-11 #40
364	250.00	52.40	2431.00	2687.00	2559.00	100	71-6-11 #41
365	250.00	88.40	2431.00	2687.00	2559.00	100	71-6-11 #42
366	300.00	0.43	72.00	80.00	76.00	100	71-6-12 #1
367	300.00	1.42	72.00	80.00	76.00	100	71-6-12 #2
368	300.00	3.34	72.00	80.00	76.00	100	71-6-12 #3
369	300.00	11.36	72.00	80.00	76.00	100	71-6-12 #4
370	300.00	26.84	72.00	80.00	76.00	100	71-6-12 #5
371	300.00	52.40	72.00	80.00	76.00	100	71-6-12 #6
372	300.00	88.40	72.00	80.00	76.00	100	71-6-12 #7
373	300.00	0.43	144.00	160.00	152.00	100	71-6-12 #8
374	300.00	1.42	144.00	160.00	152.00	100	71-6-12 #9
375	300.00	3.34	144.00	160.00	152.00	100	71-6-12 #10
376	300.00	11.36	144.00	160.00	152.00	100	71-6-12 #11
377	300.00	26.84	144.00	160.00	152.00	100	71-6-12 #12
378	300.00	52.40	144.00	160.00	152.00	100	71-6-12 #13
379	300.00	88.40	144.00	160.00	152.00	100	71-6-12 #14
380	300.00	0.43	325.00	360.00	342.50	100	71-6-12 #15
381	300.00	1.42	325.00	360.00	342.50	100	71-6-12 #16
382	300.00	3.34	325.00	360.00	342.50	100	71-6-12 #17
383	300.00	11.36	325.00	360.00	342.50	100	71-6-12 #18
384	300.00	26.84	325.00	360.00	342.50	100	71-6-12 #19
385	300.00	52.40	325.00	360.00	342.50	100	71-6-12 #20
386	300.00	88.40	325.00	360.00	342.50	2	71-6-12 #21
387	300.00	0.43	325.00	360.00	342.50	100	71-6-12x #1
388	300.00	1.42	325.00	360.00	342.50	100	71-6-12x #2
389	300.00	3.34	325.00	360.00	342.50	100	71-6-12x #3
390	300.00	11.36	325.00	360.00	342.50	100	71-6-12x #4
391	300.00	26.84	325.00	360.00	342.50	100	71-6-12x #5
392	300.00	52.40	325.00	360.00	342.50	100	71-6-12x #6
393	300.00	88.40	325.00	360.00	342.50	100	71-6-12x #7
394	300.00	0.43	617.00	682.00	649.50	100	71-6-12x #8
395	300.00	1.42	617.00	682.00	649.50	100	71-6-12x #9
396	300.00	3.34	617.00	682.00	649.50	100	71-6-12x #10
397	300.00	11.36	617.00	682.00	649.50	100	71-6-12x #11
398	300.00	26.84	617.00	682.00	649.50	100	71-6-12x #12
399	300.00	52.40	617.00	682.00	649.50	100	71-6-12x #13
400	300.00	88.40	617.00	682.00	649.50	100	71-6-12x #14

Data set: CB 71-6 Krytox 143 accontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
401	300.00	0.43	1197.00	1323.00	1260.00	100	71-6-12x #15
402	300.00	1.42	1197.00	1323.00	1260.00	100	71-6-12x #16
403	300.00	3.34	1197.00	1323.00	1260.00	100	71-6-12x #17
404	300.00	11.36	1197.00	1323.00	1260.00	100	71-6-12x #18
405	300.00	26.84	1197.00	1323.00	1260.00	100	71-6-12x #19
406	300.00	52.40	1197.00	1323.00	1260.00	100	71-6-12x #20
407	300.00	88.40	1197.00	1323.00	1260.00	100	71-6-12x #21
408	300.00	0.43	2431.00	2687.00	2559.00	100	71-6-12x #22
409	300.00	1.42	2431.00	2687.00	2559.00	100	71-6-12x #23
410	300.00	3.34	2431.00	2687.00	2559.00	100	71-6-12x #24
411	300.00	11.36	2431.00	2687.00	2559.00	100	71-6-12x #25
412	300.00	26.84	2431.00	2687.00	2559.00	100	71-6-12x #26
413	300.00	52.40	2431.00	2687.00	2559.00	100	71-6-12x #27
414	300.00	88.40	2431.00	2687.00	2559.00	100	71-6-12x #28
415	80.00	0.43	4826.00	5334.00	5080.00	100	71-6-sl #1
416	80.00	1.42	4826.00	5334.00	5080.00	100	71-6-sl #2
417	80.00	0.43	7259.00	8019.00	7639.00	100	71-6-sl #3
418	80.00	1.42	7259.00	8019.00	7639.00	100	71-6-sl #4
419	80.00	0.43	9688.00	10708.00	10198.00	100	71-6-sl #5
420	80.00	1.42	9688.00	10708.00	10198.00	100	71-6-sl #6
421	100.00	0.43	4826.00	5334.00	5080.00	100	71-6-sl #7
422	100.00	1.42	4826.00	5334.00	5080.00	100	71-6-sl #8
423	100.00	0.43	7259.00	8019.00	7639.00	100	71-6-sl #9
424	100.00	1.42	7259.00	8019.00	7639.00	100	71-6-sl #10
425	100.00	0.43	9688.00	10708.00	10198.00	100	71-6-sl #11
426	100.00	1.42	9688.00	10708.00	10198.00	100	71-6-sl #12
427	150.00	0.43	4826.00	5334.00	5080.00	100	71-6-sl #13
428	150.00	1.42	4826.00	5334.00	5080.00	100	71-6-sl #14
429	150.00	0.43	7259.00	8019.00	7639.00	100	71-6-sl #15
430	150.00	1.42	7259.00	8019.00	7639.00	100	71-6-sl #16
431	150.00	0.43	9688.00	10708.00	10198.00	100	71-6-sl #17
432	150.00	1.42	9688.00	10708.00	10198.00	100	71-6-sl #18
433	200.00	0.43	4826.00	5334.00	5080.00	100	71-6-sl #19
434	200.00	1.42	4826.00	5334.00	5080.00	100	71-6-sl #20
435	200.00	0.43	7259.00	8019.00	7639.00	100	71-6-sl #21
436	200.00	1.42	7259.00	8019.00	7639.00	100	71-6-sl #22
437	200.00	0.43	9688.00	10708.00	10198.00	100	71-6-sl #23
438	200.00	1.42	9688.00	10708.00	10198.00	100	71-6-sl #24
439	250.00	0.43	4826.00	5334.00	5080.00	100	71-6-sl #25
440	250.00	1.42	4826.00	5334.00	5080.00	100	71-6-sl #26
441	250.00	0.43	7259.00	8019.00	7639.00	100	71-6-sl #27
442	250.00	1.42	7259.00	8019.00	7639.00	100	71-6-sl #28
443	250.00	0.43	9688.00	10708.00	10198.00	100	71-6-sl #29
444	250.00	1.42	9688.00	10708.00	10198.00	100	71-6-sl #30
445	300.00	0.43	4826.00	5334.00	5080.00	100	71-6-sl #31
446	300.00	1.42	4826.00	5334.00	5080.00	100	71-6-sl #32
447	300.00	0.43	7259.00	8019.00	7639.00	100	71-6-sl #33
448	300.00	1.42	7259.00	8019.00	7639.00	100	71-6-sl #34
449	300.00	0.43	9688.00	10708.00	10198.00	100	71-6-sl #35
450	300.00	1.42	9688.00	10708.00	10198.00	100	71-6-sl #36
451	80.00	0.85	4826.00	5334.00	5080.00	100	71-6-slx #1
452	80.00	2.06	4826.00	5334.00	5080.00	100	71-6-slx #2
453	80.00	0.85	7259.00	8019.00	7639.00	100	71-6-slx #3
454	80.00	2.06	7259.00	8019.00	7639.00	100	71-6-slx #4
455	80.00	0.85	9688.00	10708.00	10198.00	100	71-6-slx #5
456	80.00	2.06	9688.00	10708.00	10198.00	100	71-6-slx #6
457	100.00	0.85	4826.00	5334.00	5080.00	100	71-6-slx #7
458	100.00	2.06	4826.00	5334.00	5080.00	100	71-6-slx #8
459	100.00	0.85	7259.00	8019.00	7639.00	100	71-6-slx #9
460	100.00	2.06	7259.00	8019.00	7639.00	100	71-6-slx #10
461	100.00	0.85	9688.00	10708.00	10198.00	100	71-6-slx #11
462	100.00	2.06	9688.00	10708.00	10198.00	100	71-6-slx #12
463	150.00	0.85	4826.00	5334.00	5080.00	100	71-6-slx #13
464	150.00	2.06	4826.00	5334.00	5080.00	100	71-6-slx #14
465	150.00	0.85	7259.00	8019.00	7639.00	100	71-6-slx #15
466	150.00	2.06	7259.00	8019.00	7639.00	100	71-6-slx #16
467	150.00	0.85	9688.00	10708.00	10198.00	100	71-6-slx #17
468	150.00	2.06	9688.00	10708.00	10198.00	100	71-6-slx #18
469	200.00	0.85	4826.00	5334.00	5080.00	100	71-6-slx #19
470	200.00	2.06	4826.00	5334.00	5080.00	100	71-6-slx #20

Data set: CB 71-6 Krytox 143 accontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
471	200.00	0.85	7259.00	8019.00	7639.00	100	71-6-slx #21
472	200.00	2.06	7259.00	8019.00	7639.00	100	71-6-slx #22
473	200.00	0.85	9688.00	10708.00	10198.00	100	71-6-slx #23
474	200.00	2.06	9688.00	10708.00	10198.00	100	71-6-slx #24
475	250.00	0.85	4826.00	5334.00	5080.00	100	71-6-slx #25
476	250.00	2.06	4826.00	5334.00	5080.00	100	71-6-slx #26
477	250.00	0.85	7259.00	8019.00	7639.00	100	71-6-slx #27
478	250.00	2.06	7259.00	8019.00	7639.00	100	71-6-slx #28
479	250.00	0.85	9688.00	10708.00	10198.00	100	71-6-slx #29
480	250.00	2.06	9688.00	10708.00	10198.00	100	71-6-slx #30
481	300.00	0.85	4826.00	5334.00	5080.00	100	71-6-slx #31
482	300.00	2.06	4826.00	5334.00	5080.00	100	71-6-slx #32
483	300.00	0.85	7259.00	8019.00	7639.00	100	71-6-slx #33
484	300.00	2.06	7259.00	8019.00	7639.00	100	71-6-slx #34
485	300.00	0.85	9688.00	10708.00	10198.00	100	71-6-slx #35
486	300.00	2.06	9688.00	10708.00	10198.00	100	71-6-slx #36

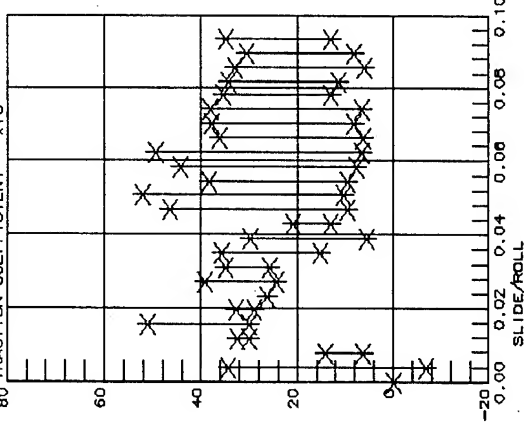
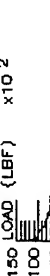
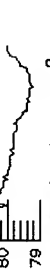
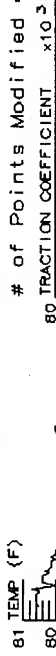
Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #
cb1.dat	80.00	1260.00	185 186 187 188
cb2.dat	80.00	2559.00	192 193 194 195
cb3.dat	80.00	5080.00	25 26 27 28
cb4.dat	80.00	7639.00	32 33 34 35
cb5.dat	80.00	10198.00	39 40 41 42
cb6.dat	100.00	1260.00	229 230 231 232
cb7.dat	100.00	2559.00	236 237 238 239
cb8.dat	100.00	5080.00	46 47 48 49
cb9.dat	100.00	7639.00	53 54 55 56
cb10.dat	100.00	10198.00	60 61 62 63
cb11.dat	150.00	1260.00	271 272 273 274
cb12.dat	150.00	2559.00	278 279 280 281
cb13.dat	150.00	5080.00	67 68 69 70
cb14.dat	150.00	7639.00	74 75 76 77
cb15.dat	150.00	10198.00	81 82 83 84
cb16.dat	200.00	1260.00	313 314 315 316
cb17.dat	200.00	2559.00	320 321 322 323
cb18.dat	200.00	5080.00	88 89 90 91
cb19.dat	200.00	7639.00	95 96 97 98
cb20.dat	200.00	10198.00	102 103 104 105
cb21.dat	250.00	1260.00	355 356 357 358
cb22.dat	250.00	2559.00	362 363 364 365
cb23.dat	250.00	5080.00	109 110 127 128
cb24.dat	250.00	7639.00	116 117 129 130
cb25.dat	250.00	10198.00	123 124 131 132
cb26.dat	300.00	1260.00	404 405 406 407
cb27.dat	300.00	2559.00	411 412 413 414
cb28.dat	300.00	5080.00	136 137 138 139
cb29.dat	300.00	7639.00	143 144 145 146
cb30.dat	300.00	10198.00	150 151 152 153

TRACTION DATA

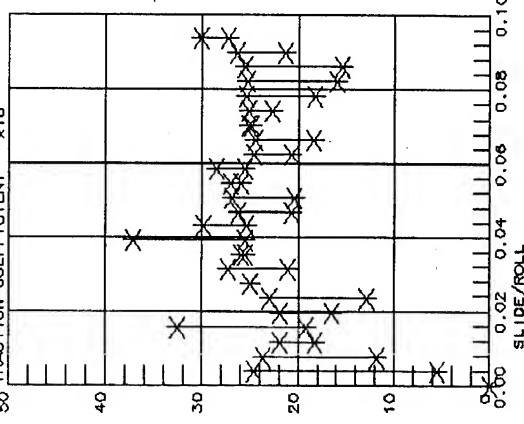
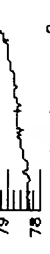
CB 71-6 Krytox 143 ac FILE: 71-6-01x #1

of Points Modified = 1



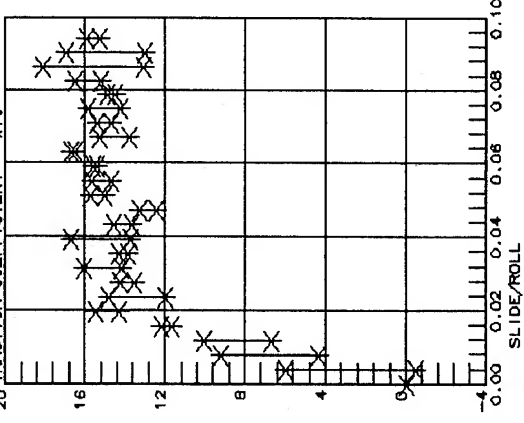
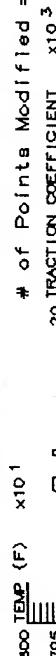
CB 71-6 Krytox 143 ac FILE: 71-6-01x #2

of Points Modified = 4



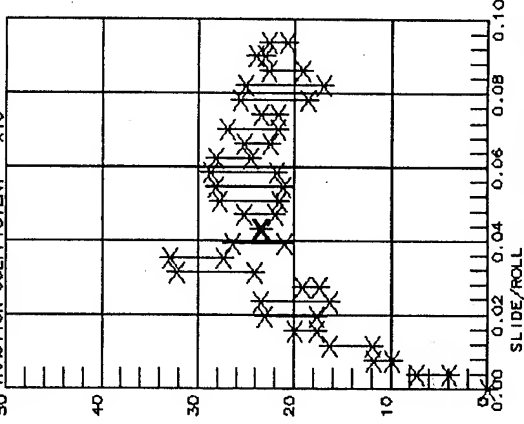
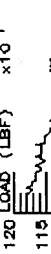
CB 71-6 Krytox 143 ac FILE: 71-6-01x #3

of Points Modified = 1



CB 71-6 Krytox 143 ac FILE: 71-6-01x #4

of Points Modified = 4

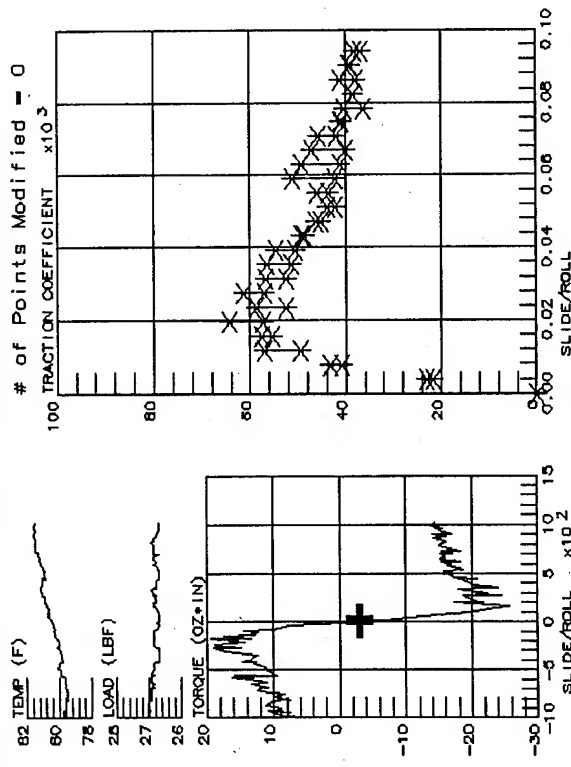


TRACTION DATA

CB 71-6 Krytox 143 ac FILE: 71-6-01x
80F 27LBF 5080RPM #6

#5

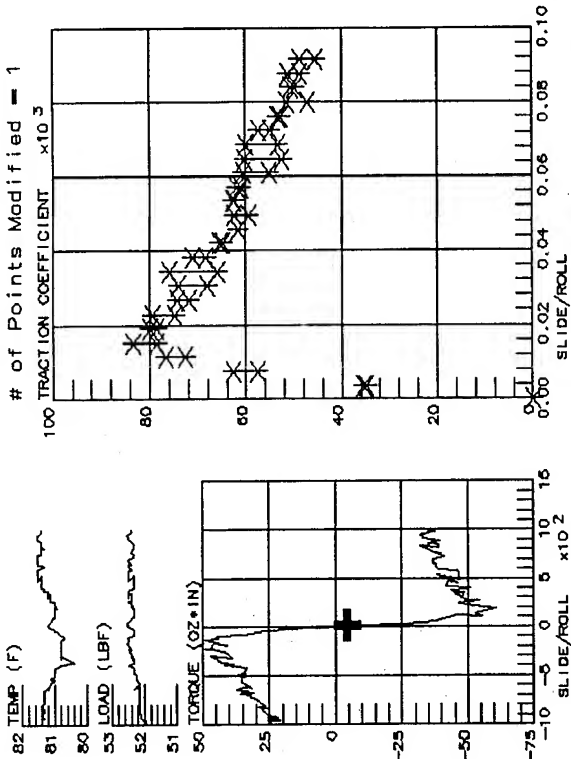
of Points Modified = 0



CB 71-6 Krytox 143 ac FILE: 71-6-01x
80F 53LBF 5080RPM #8

#8

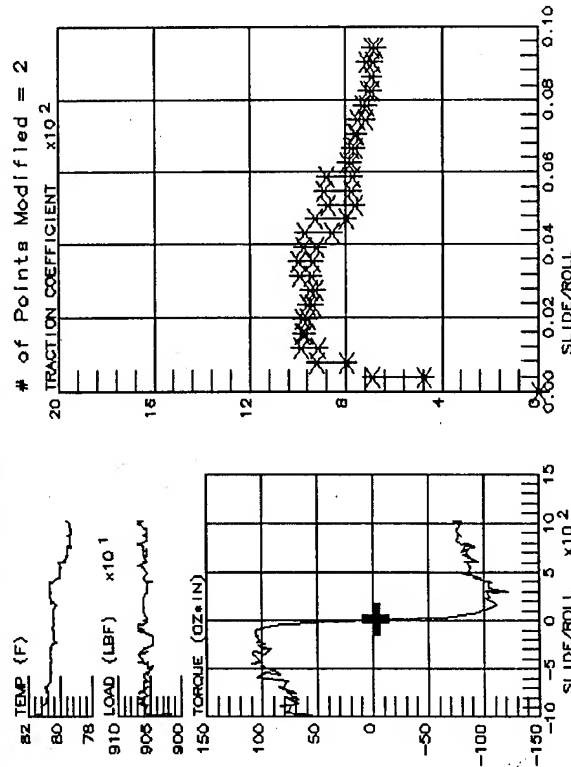
of Points Modified = 1



CB 71-6 Krytox 143 ac FILE: 71-6-01x
80F 91LBF 5080RPM #7

#7

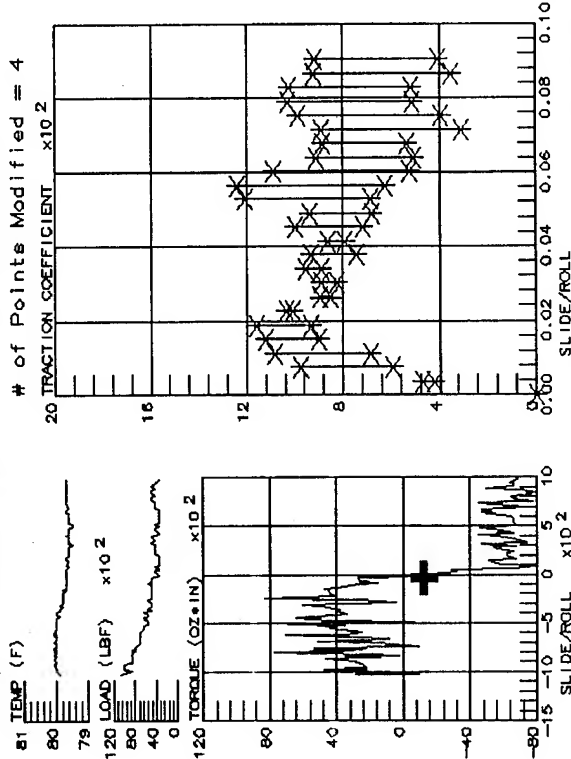
of Points Modified = 2



CB 71-6 Krytox 143 ac FILE: 71-6-01x
80F 11LBF 7699RPM #8

#8

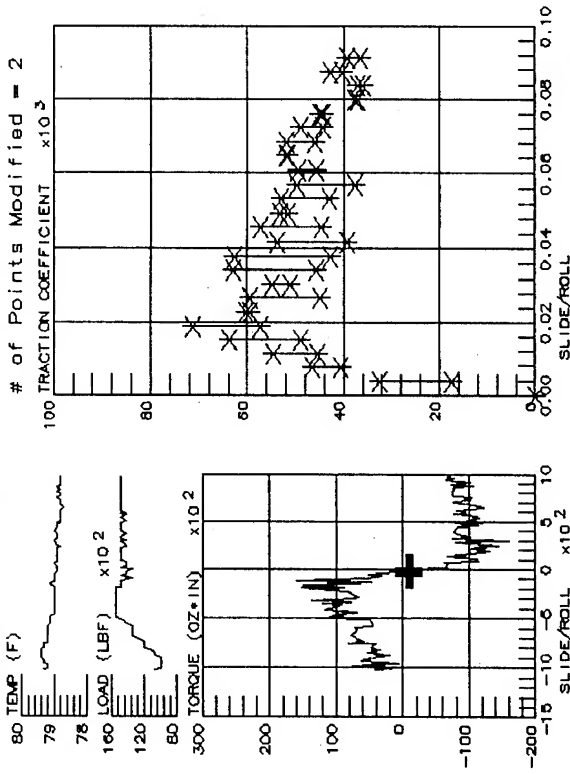
of Points Modified = 4



TRACTION DATA

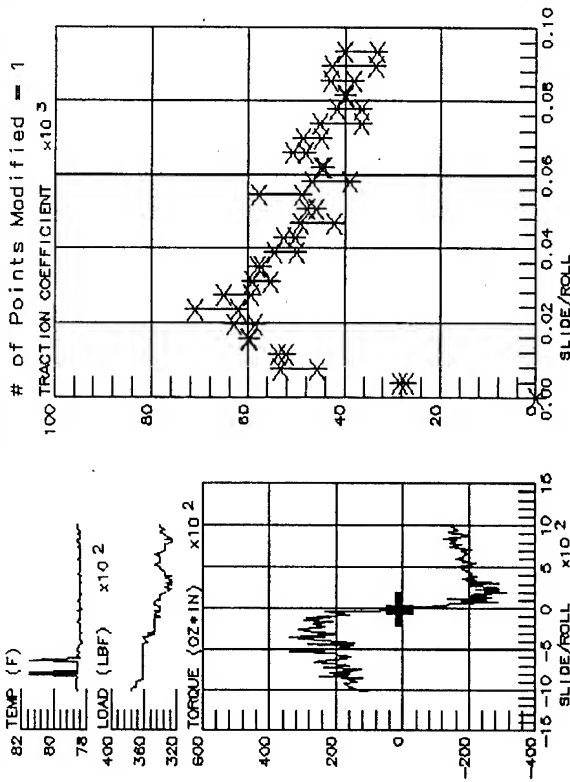
CB 71-6 Krytox 143 ac FILE: 71-6-01x #9
80F 2LBF 7639RPM #9

of Points Modified = 2



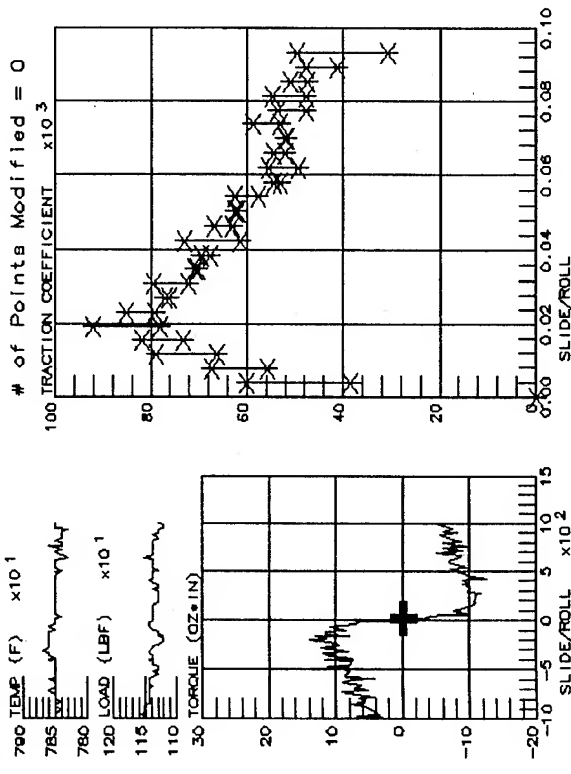
CB 71-6 Krytox 143 ac FILE: 71-6-01x #10
80F 4LBF 7639RPM #10

of Points Modified = 1



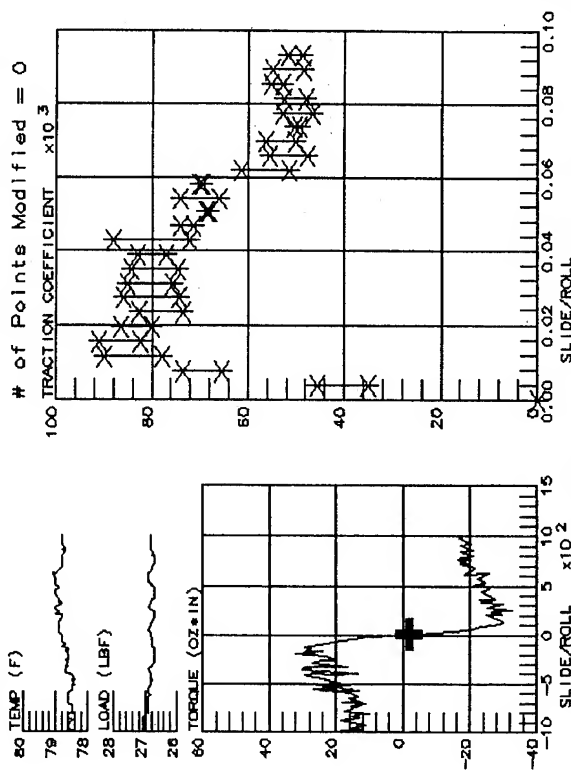
CB 71-6 Krytox 143 ac FILE: 71-6-01x #11
80F 12LBF 7639RPM #11

of Points Modified = 0



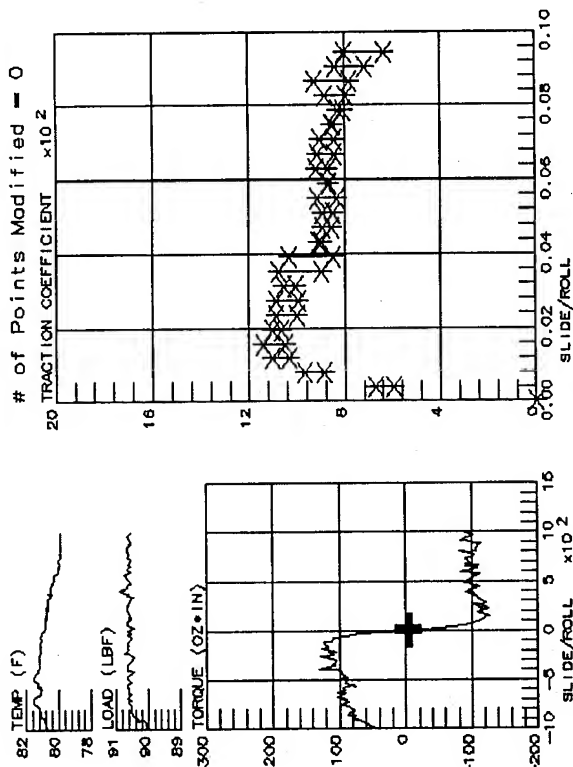
CB 71-6 Krytox 143 ac FILE: 71-6-01x #12
80F 27LBF 7639RPM #12

of Points Modified = 0

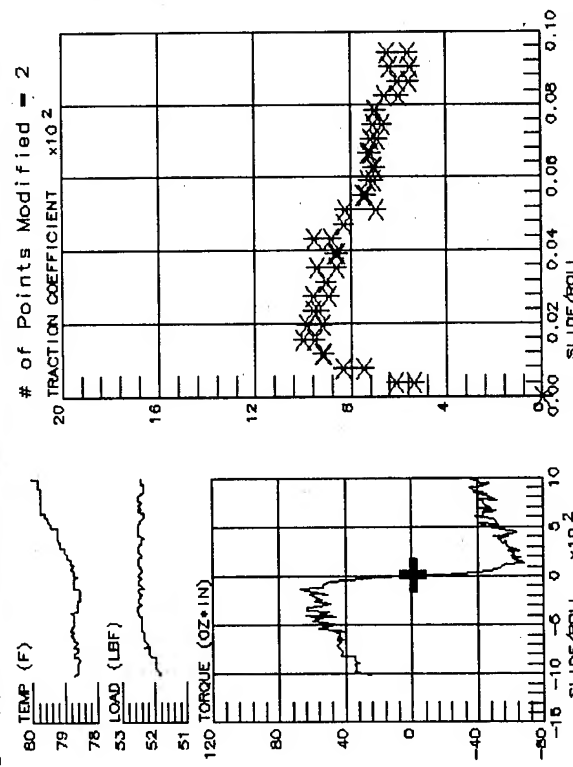


TRACTION DATA

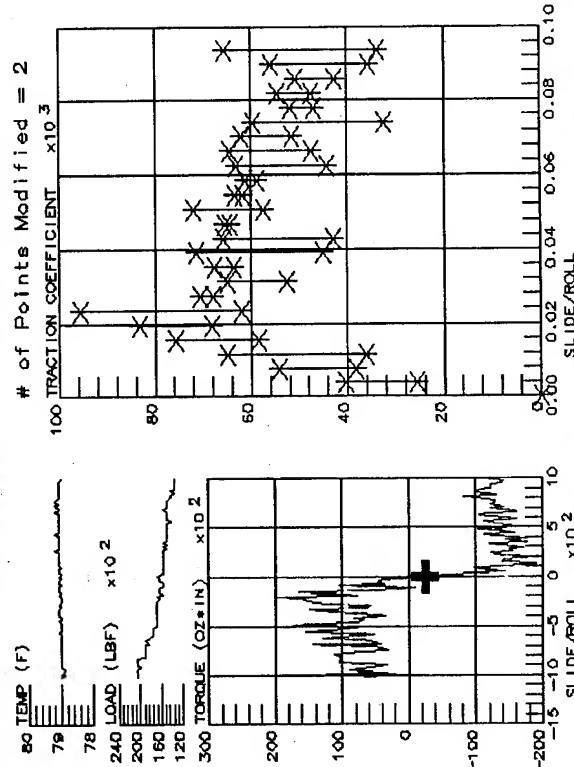
CB 71-6 Krytox 143 ac FILE: 71-6-01x #14
80F 91LBF 7639RPM #14



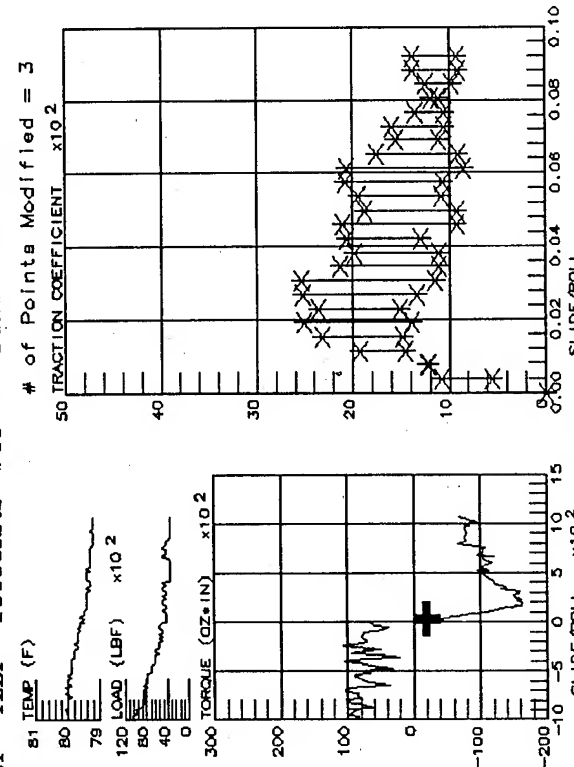
CB 71-6 Krytox 143 ac FILE: 71-6-01x #13
80F 53LBF 7639RPM #13



CB 71-6 Krytox 143 ac FILE: 71-6-01x #16
80F 2LB 10198RPM #16

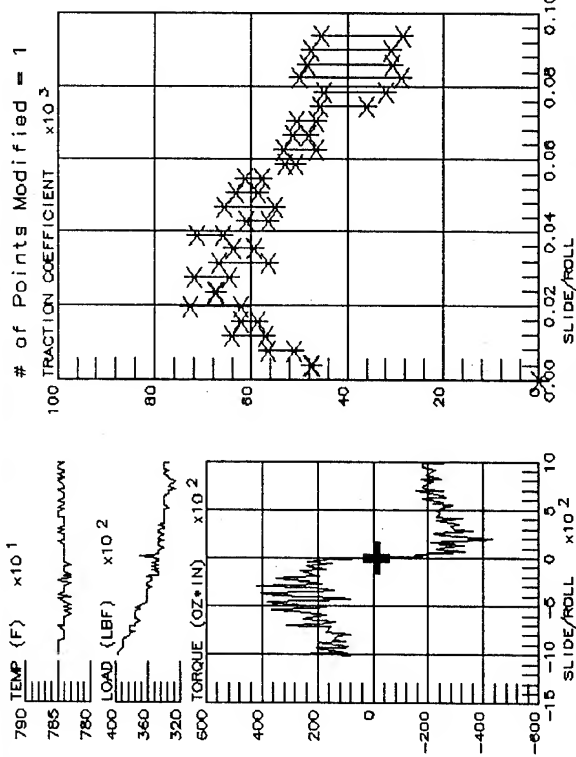


CB 71-6 Krytox 143 ac FILE: 71-6-01x #15
80F 1LB 10198RPM #15

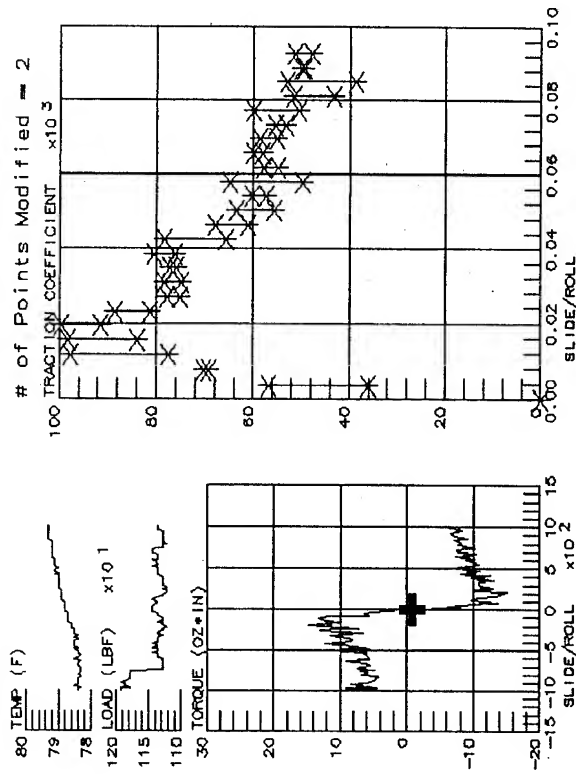


TRACTION DATA

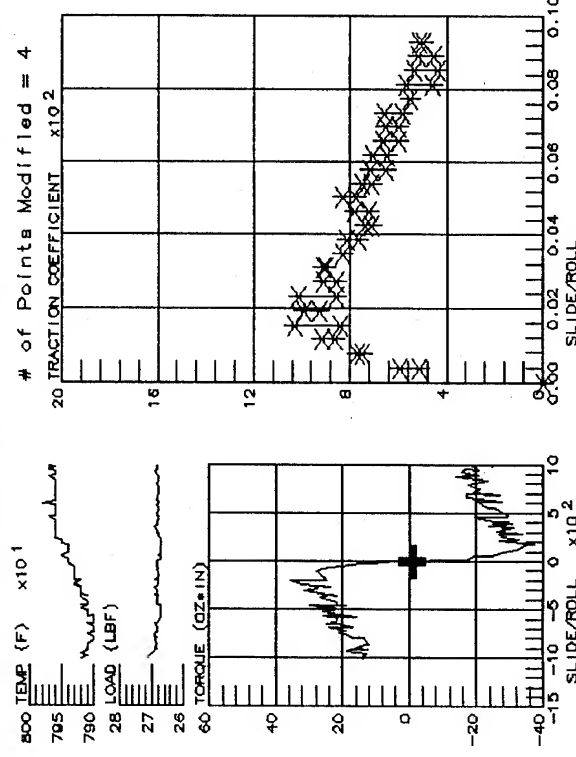
CB 71-6 Krytox 143 ac #17
80F 4LBF 1019RPM #17 FILE: 71-6-01x



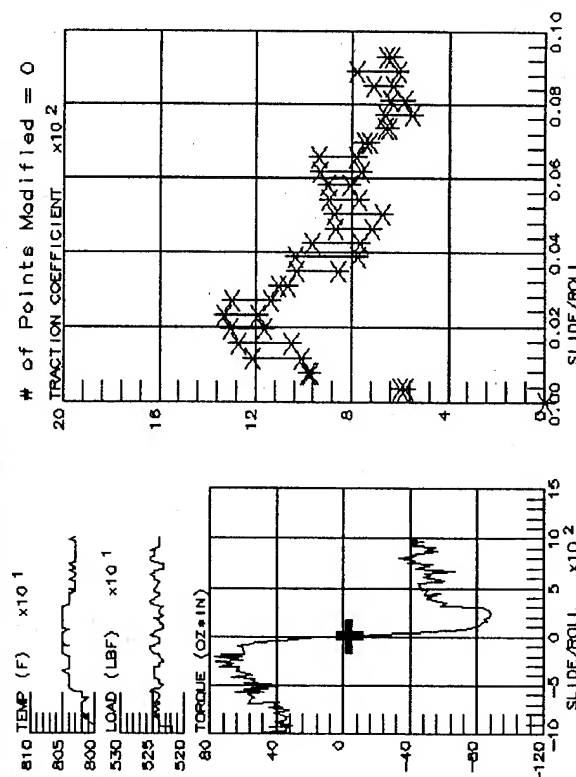
CB 71-6 Krytox 143 ac #18
80F 12LBF 1019RPM #18 FILE: 71-6-01x



CB 71-6 Krytox 143 ac #19
80F 27LBF 1019RPM #19 FILE: 71-6-01x



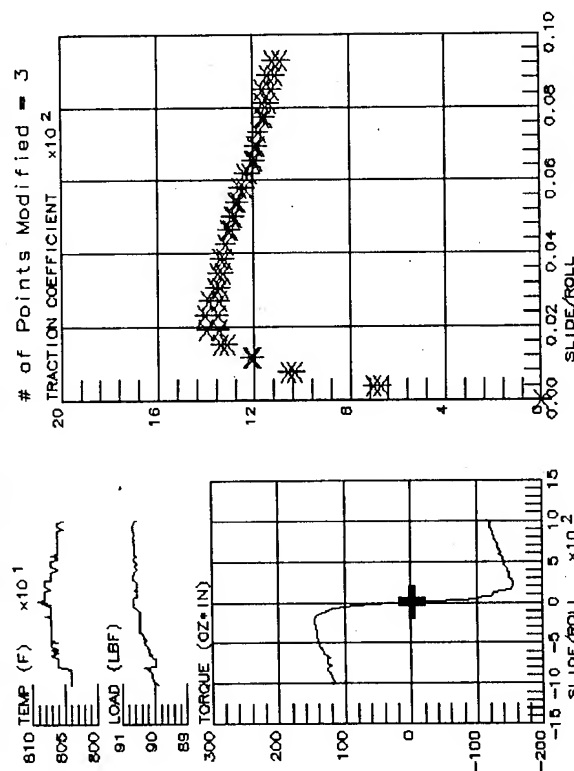
CB 71-6 Krytox 143 ac #20
80F 53LBF 1019RPM #20 FILE: 71-6-01x



TRACTION DATA

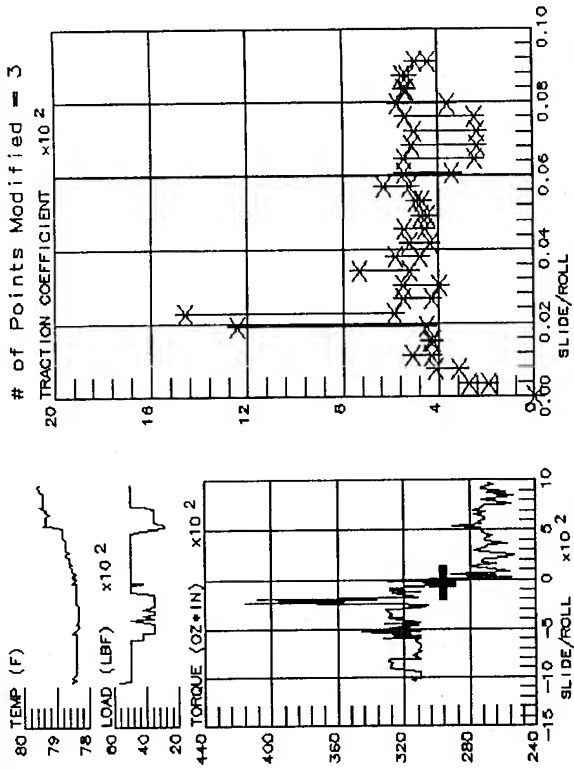
CB 71-6 Krytox 143 ac FILE: 71-6-01x #21
80F 91LBF 1019RPM #21

of Points Modified = 3



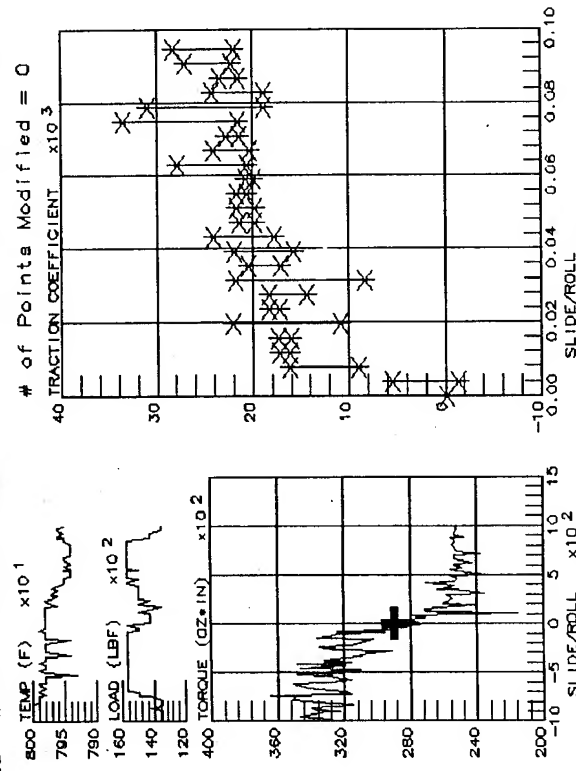
CB 71-6 Krytox 143 ac FILE: 71-6-01y #22
80F 11LBF 5080RPM #1

of Points Modified = 3



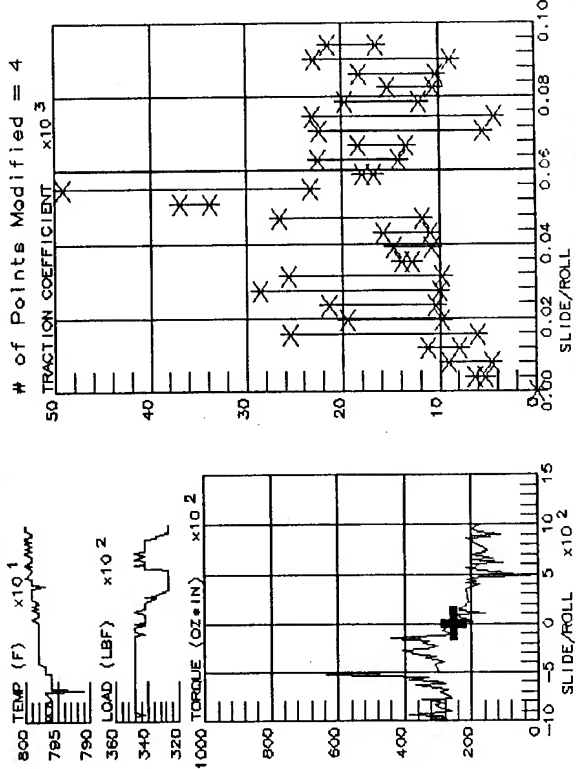
CB 71-6 Krytox 143 ac FILE: 71-6-01y #23
80F 21LBF 5080RPM #2

of Points Modified = 0



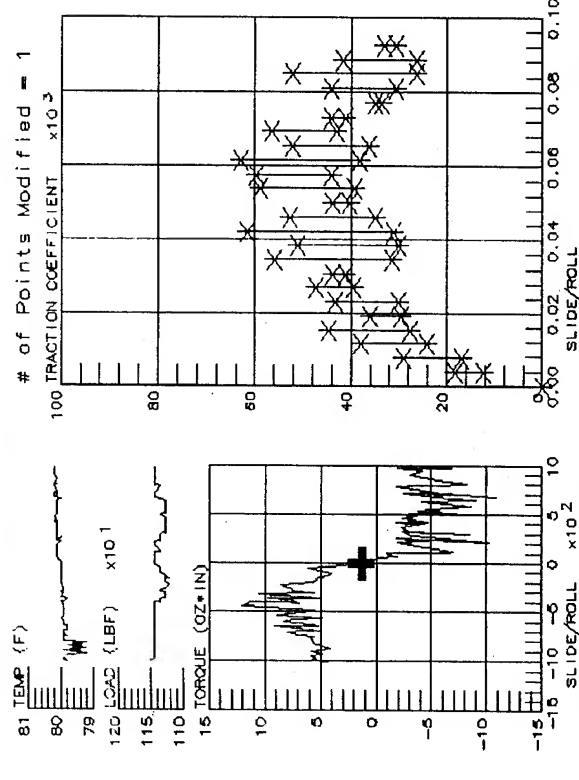
CB 71-6 Krytox 143 ac FILE: 71-6-01y #24
80F 41LBF 5080RPM #3

of Points Modified = 4

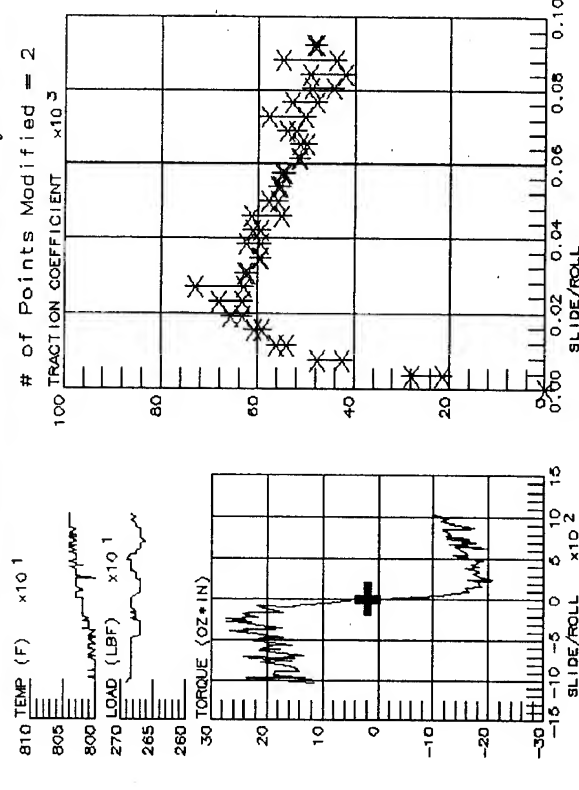


TRACTION DATA

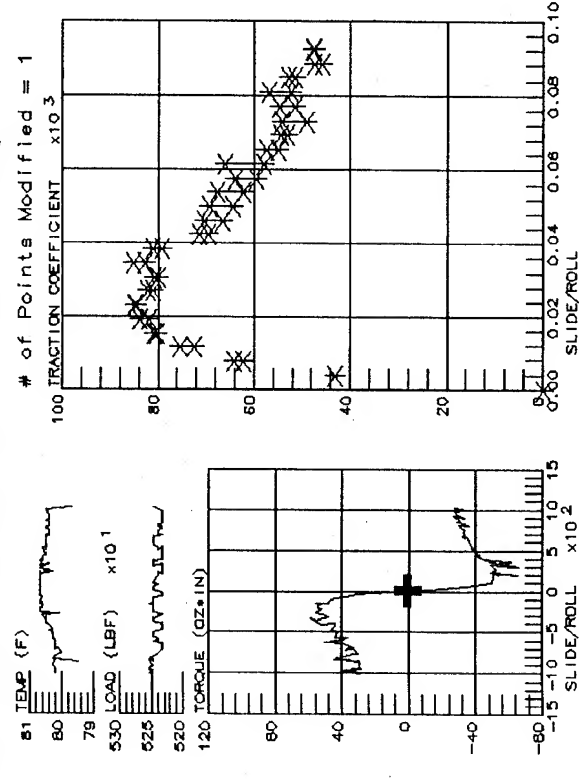
CB 71-6 Krytox 143 ac FILE: 71-6-01y #25
80F 12LBF 5080RPM #4



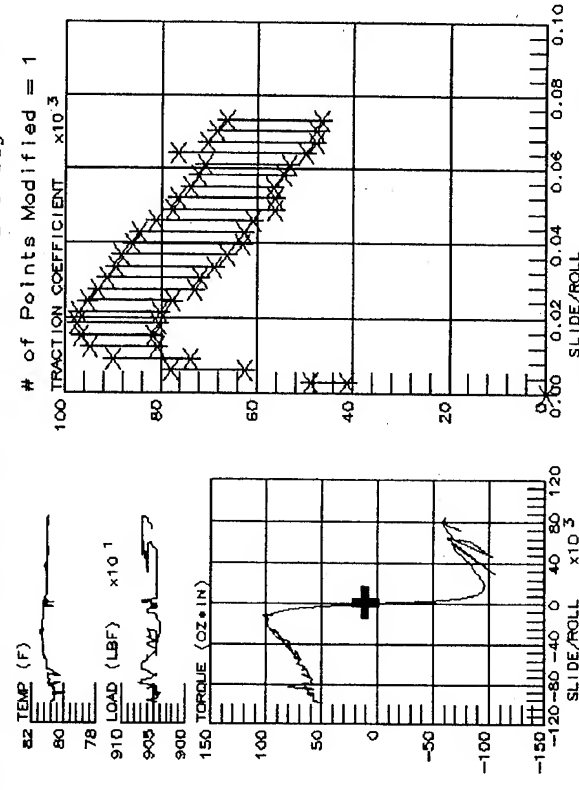
CB 71-6 Krytox 143 ac FILE: 71-6-01y #28
80F 27LBF 5080RPM #5



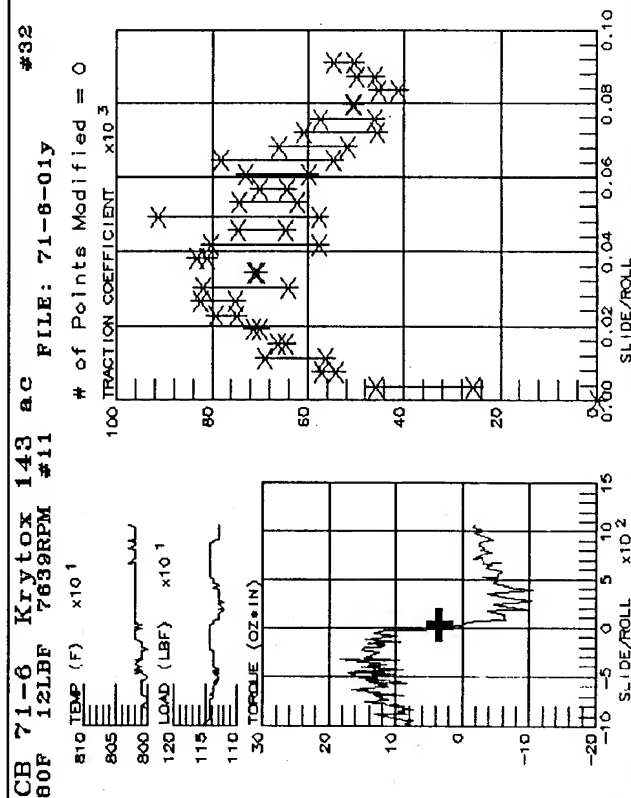
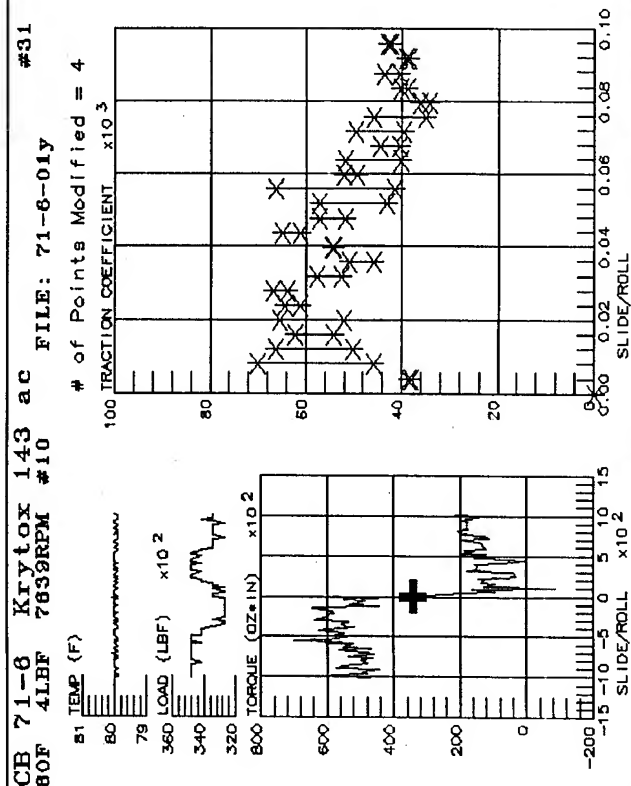
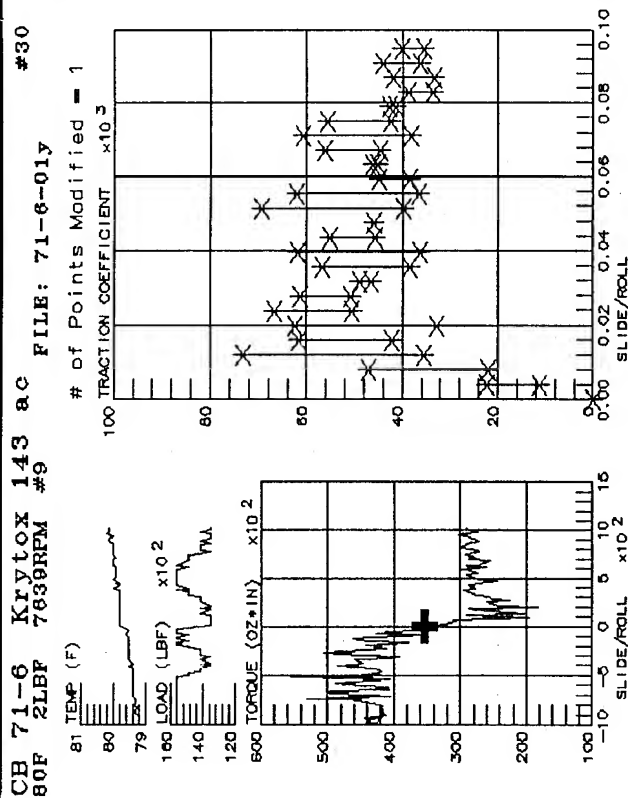
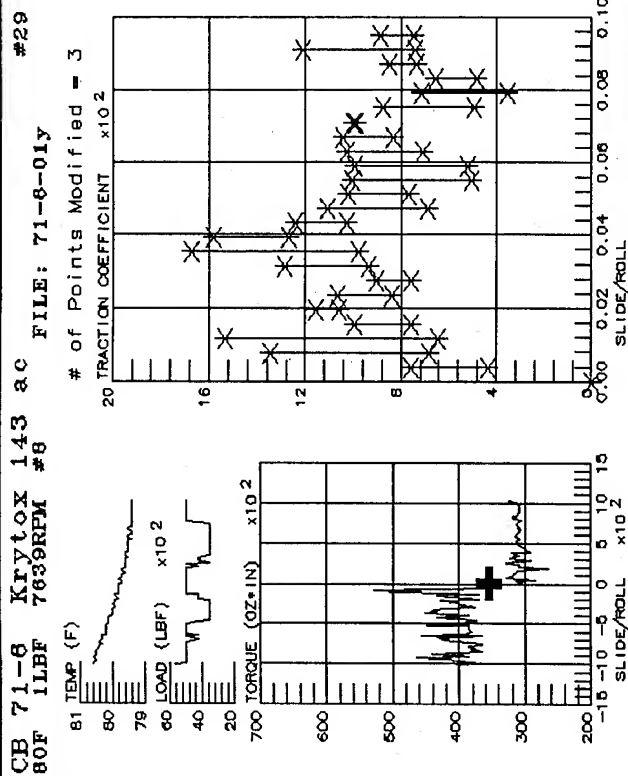
CB 71-6 Krytox 143 ac FILE: 71-6-01y #27
80F 53LBF 5080RPM #6



CB 71-6 Krytox 143 ac FILE: 71-6-01y #28
80F 91LBF 5080RPM #7

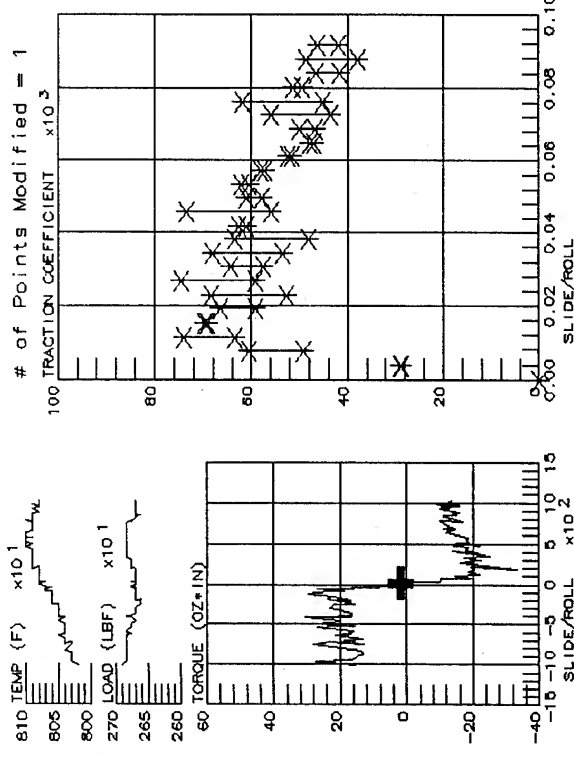


TRACTION DATA

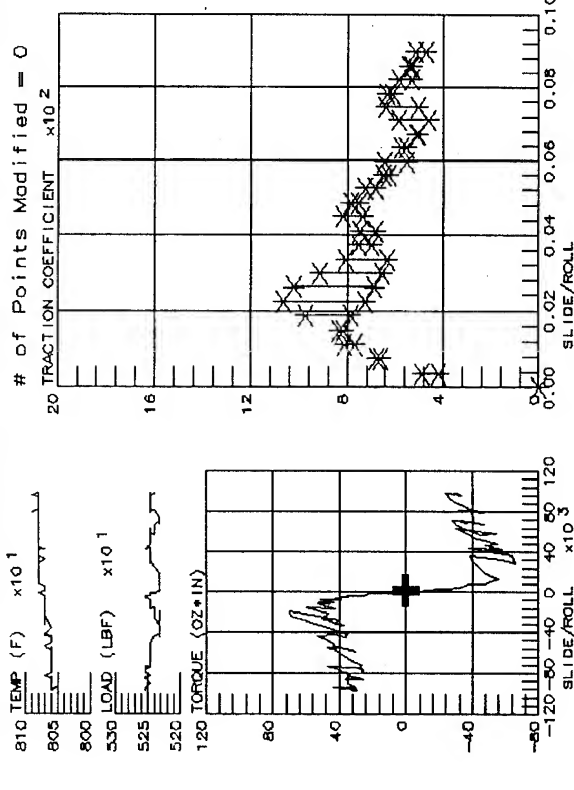


TRACTION DATA

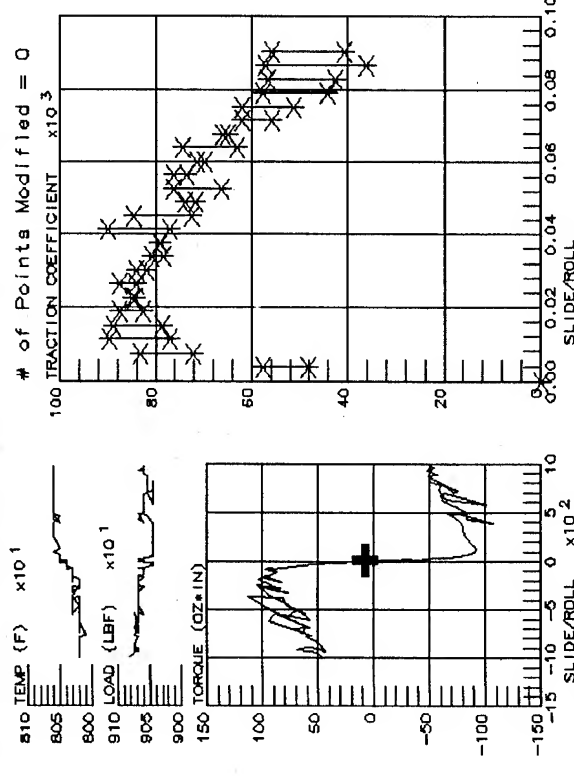
CB 71-6 Krytox 143 ac FILE: 71-6-01y #33
80F 27LBF 7639RPM #12



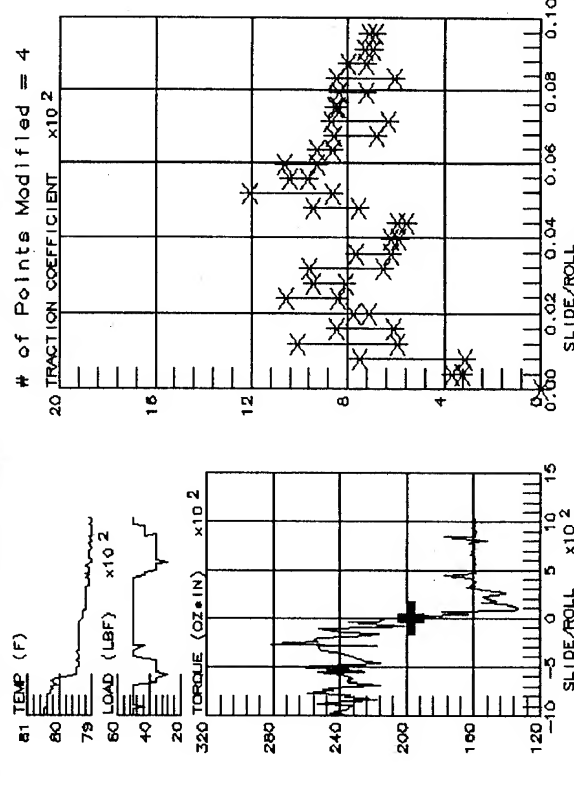
CB 71-6 Krytox 143 ac FILE: 71-6-01y #34
80F 53LBF 7639RPM #13



CB 71-6 Krytox 143 ac FILE: 71-6-01y #35
80F 31LBF 7639RPM #14



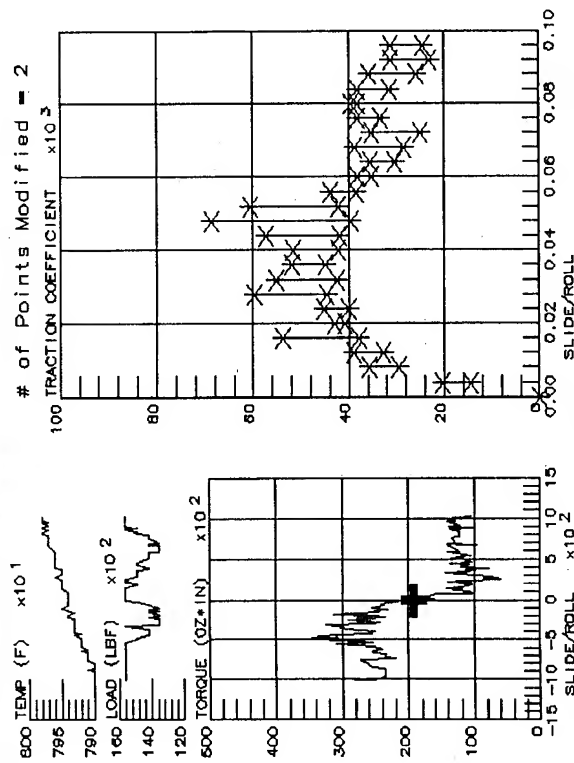
CB 71-6 Krytox 143 ac FILE: 71-6-01y #36
80F 11LBF 1019RPM #15



TRACTION DATA

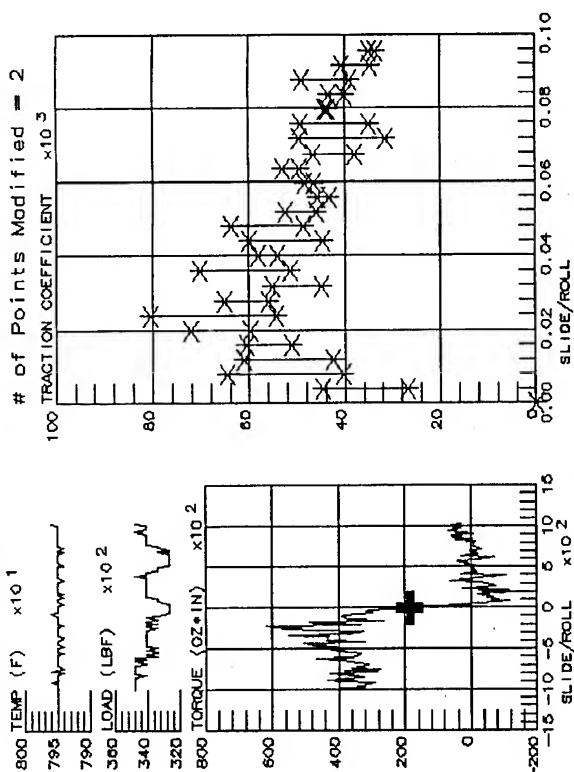
CB 71-6 Krytox 143 ac FILE: 71-6-01y #37
80F 2LBF 10198RPM #18

of Points Modified = 2



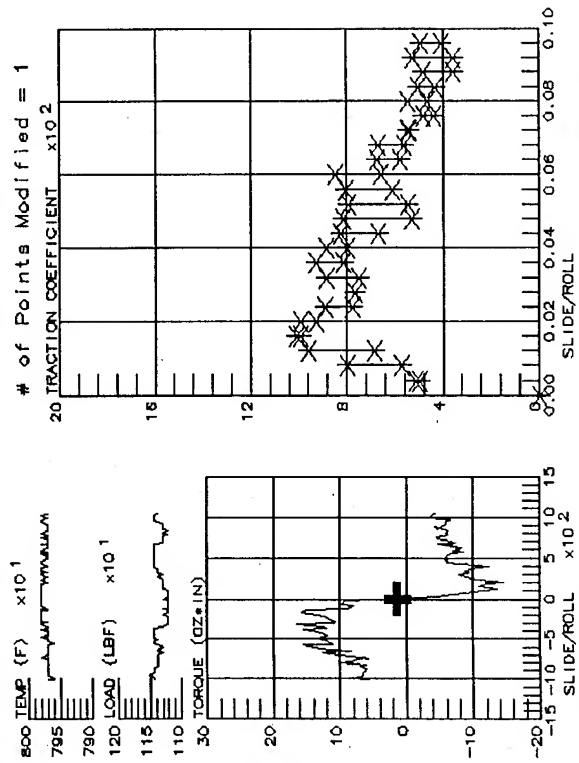
CB 71-6 Krytox 143 ac FILE: 71-6-01y #38
80F 4LBF 10198RPM #17

of Points Modified = 2



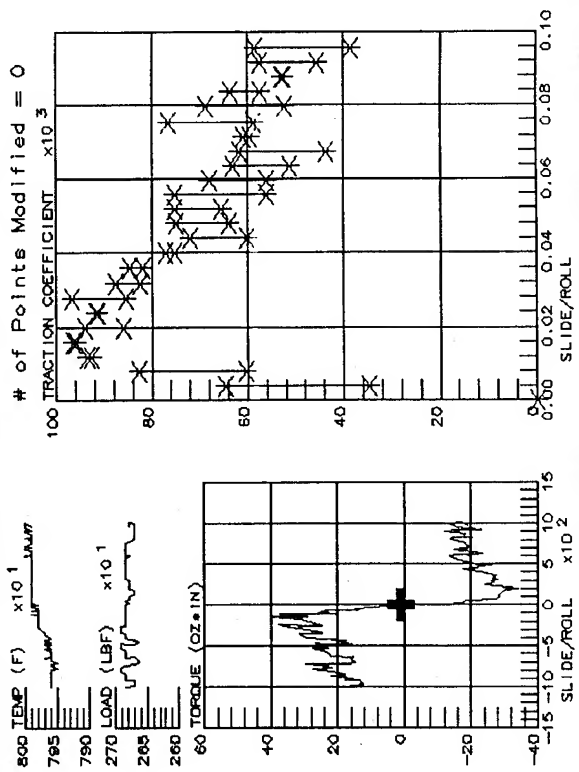
CB 71-6 Krytox 143 ac FILE: 71-6-01y #39
80F 12LBF 10198RPM #18

of Points Modified = 1



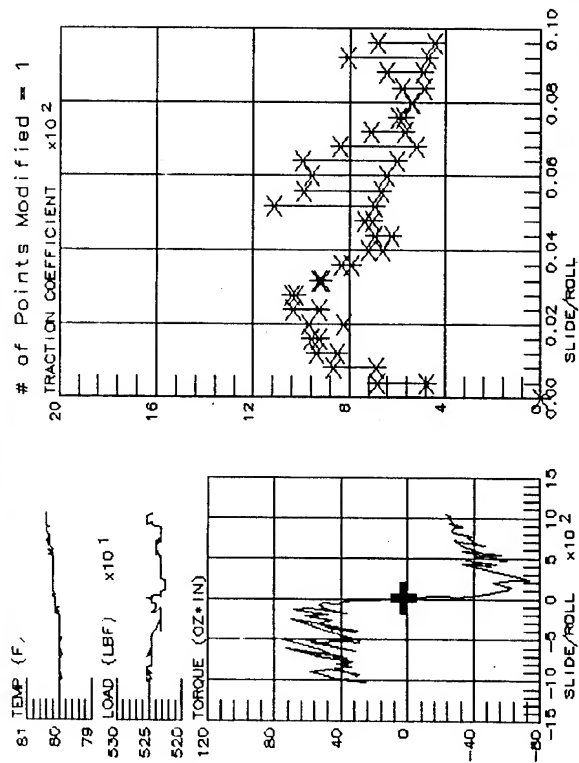
CB 71-6 Krytox 143 ac FILE: 71-6-01y #40
80F 27LBF 10198RPM #19

of Points Modified = 0

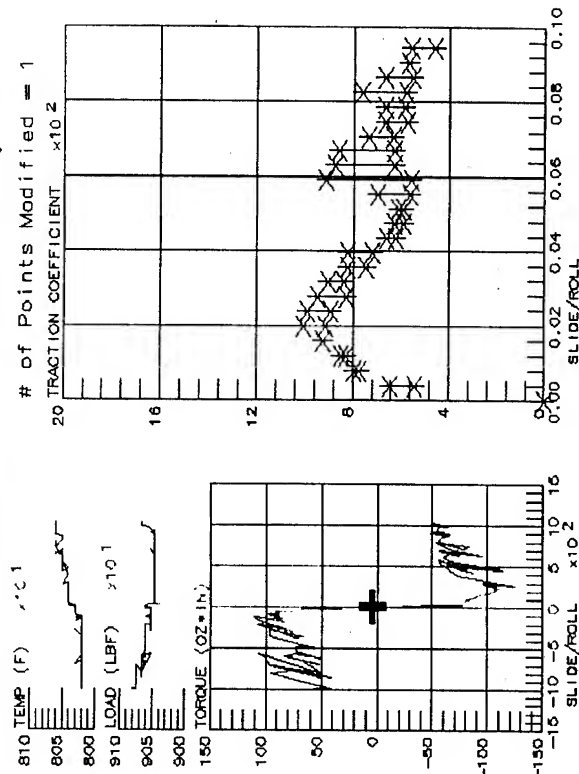


TRACTION DATA

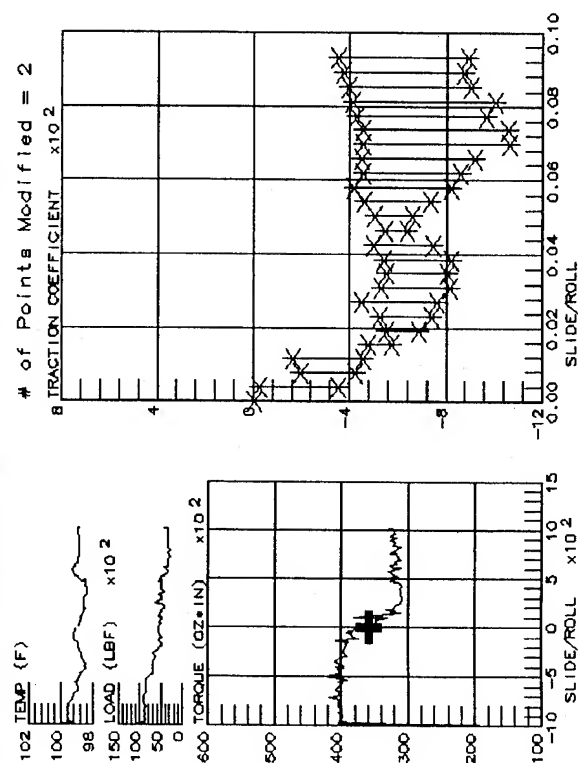
CB 71-6 Krytox 143 ac FILE: 71-8-01y #41
80F 53LBF 1019RPM #20



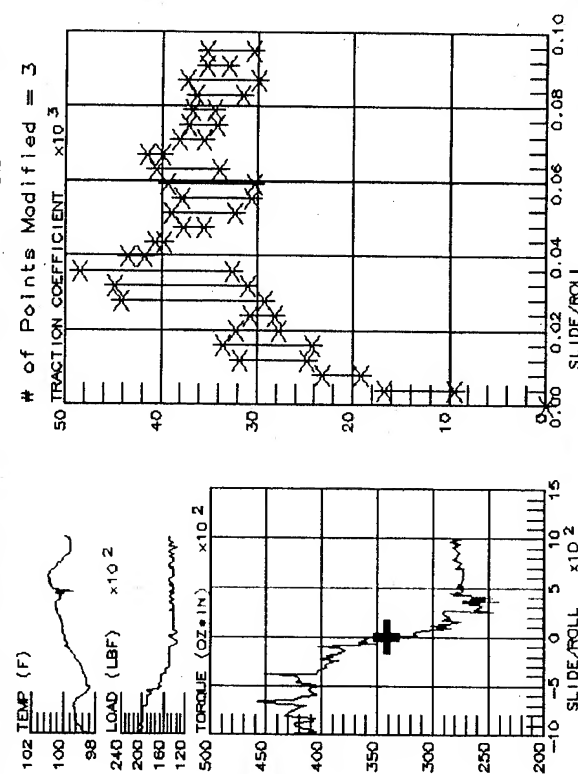
CB 71-6 Krytox 143 ac FILE: 71-8-01y #42
80F 91LBF 1019RPM #21



CB 71-6 Krytox 143 ac FILE: 71-8-02 #43
100F 1LBF 5080RPM #1

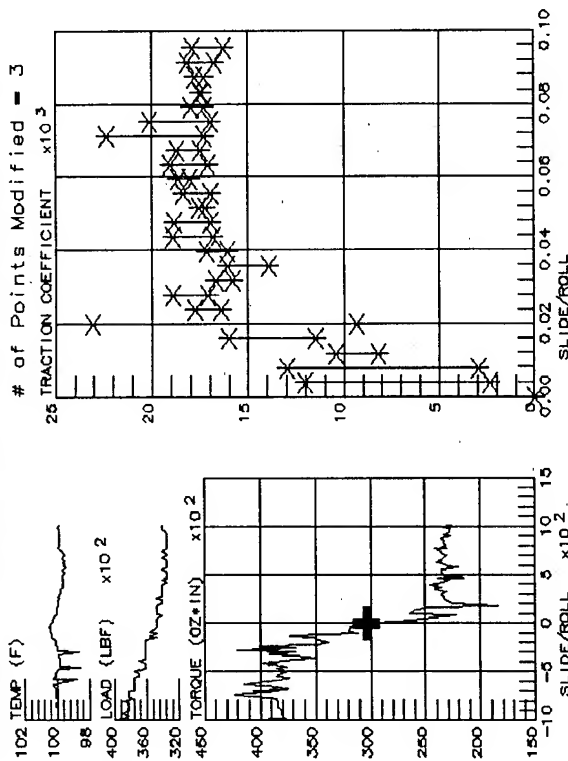


CB 71-6 Krytox 143 ac FILE: 71-8-02 #44
100F 2LBF 5080RPM #2

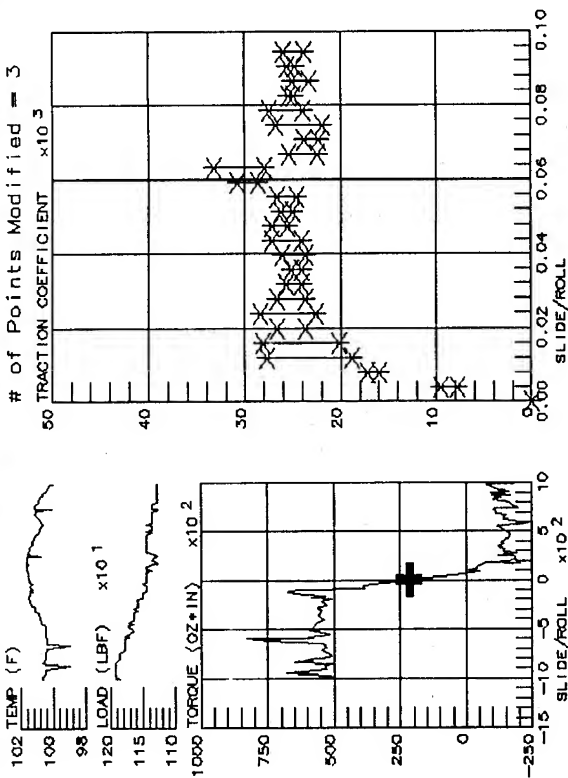


TRACTION DATA

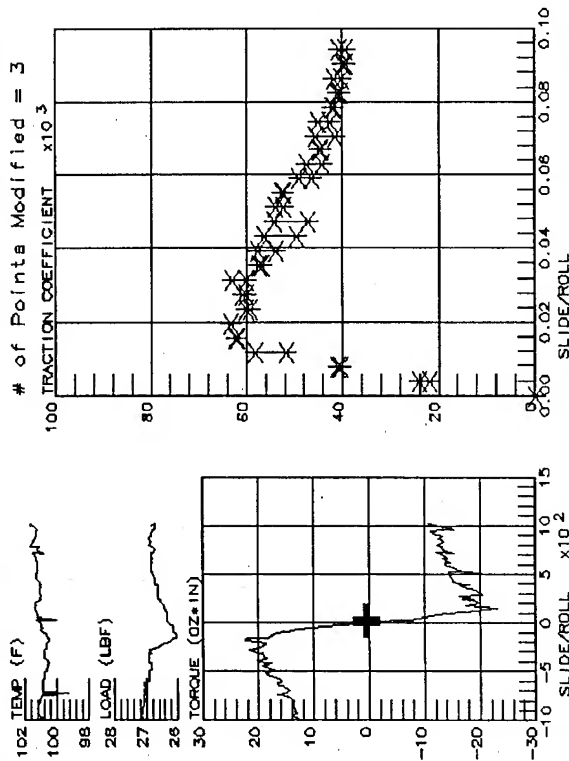
CB 71-6 Krytox 143 ac FILE: 71-6-02 #45
100F 4LBF 5080RPM #3



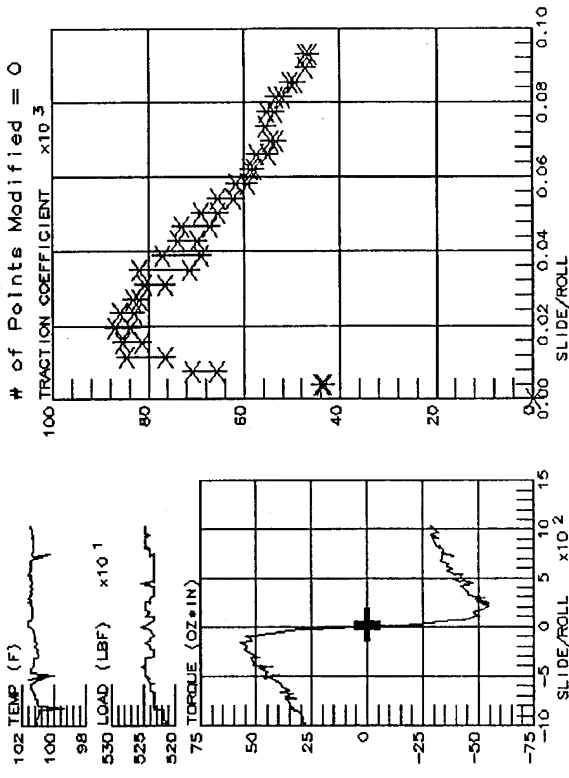
CB 71-6 Krytox 143 ac FILE: 71-6-02 #46
100F 12LBF 5080RPM #4



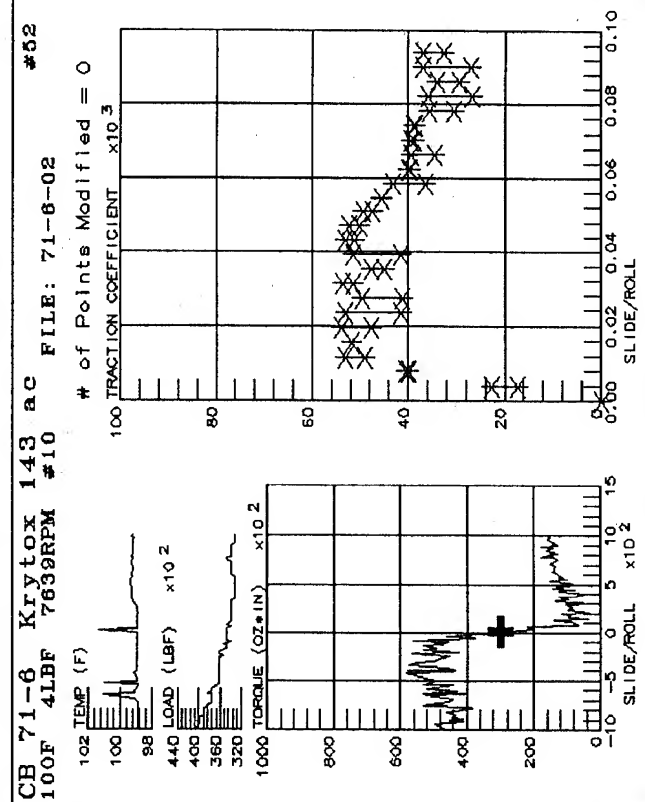
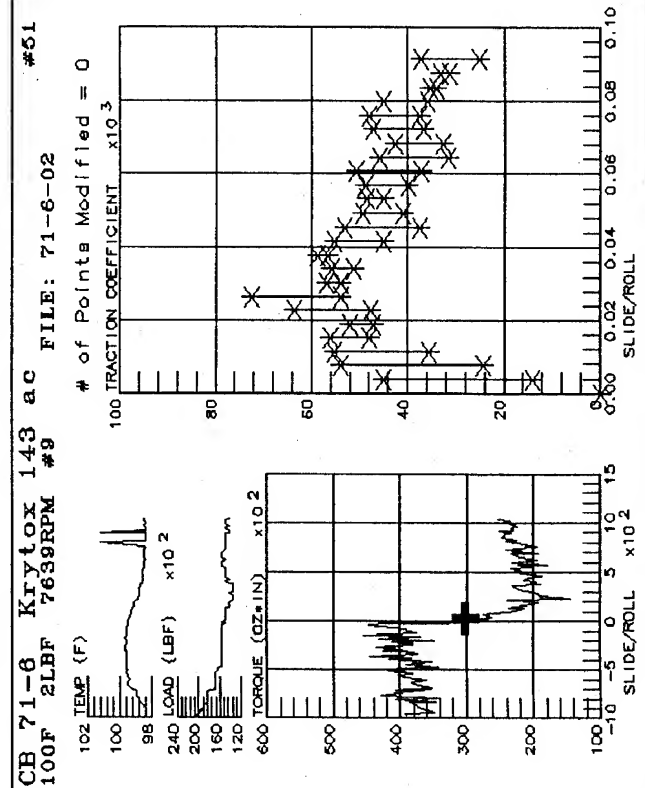
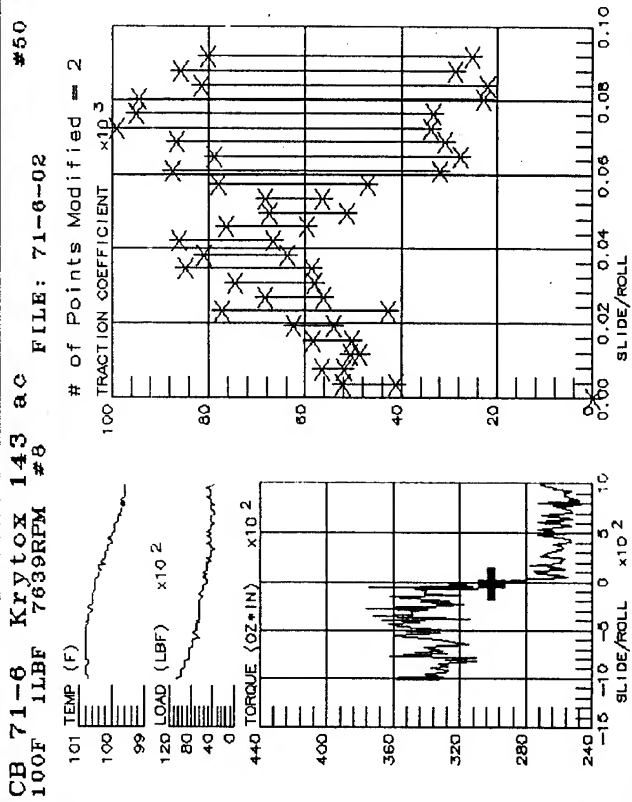
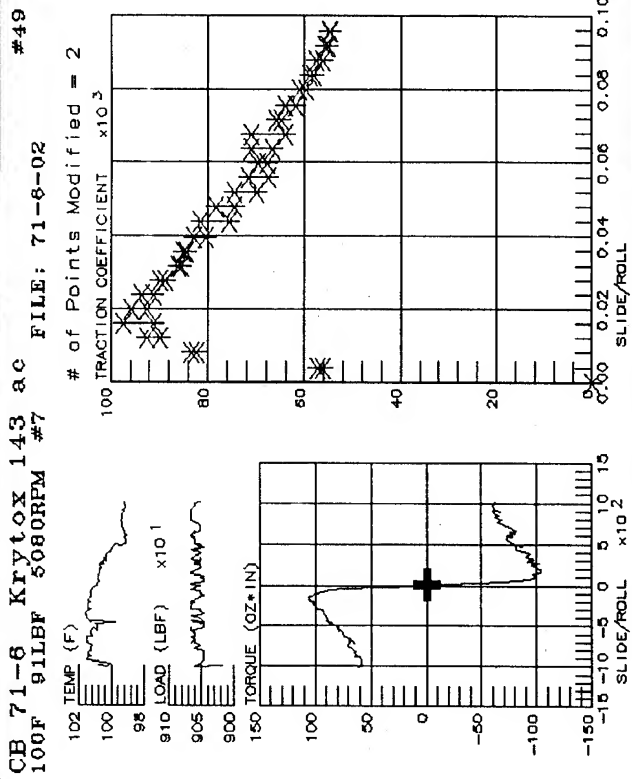
CB 71-6 Krytox 143 ac FILE: 71-6-02 #47
100F 27LBF 5080RPM #5



CB 71-6 Krytox 143 ac FILE: 71-6-02 #48
100F 53LBF 5080RPM #6

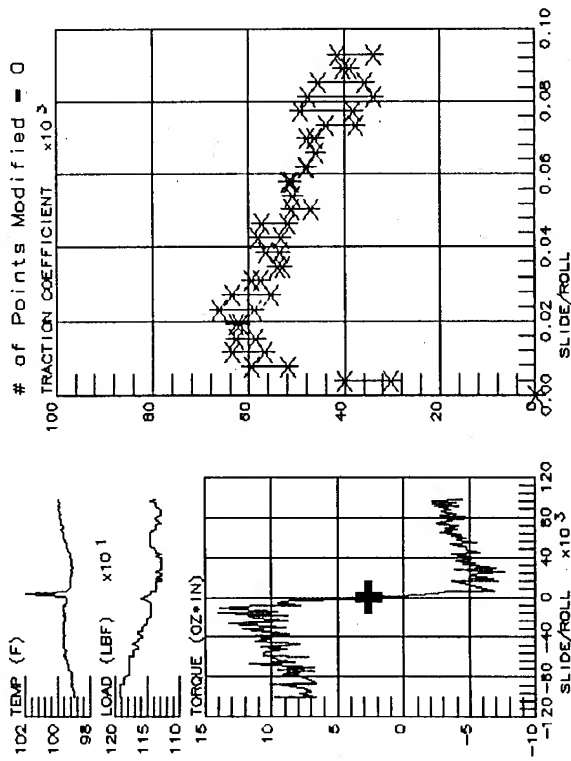


TRACTION DATA

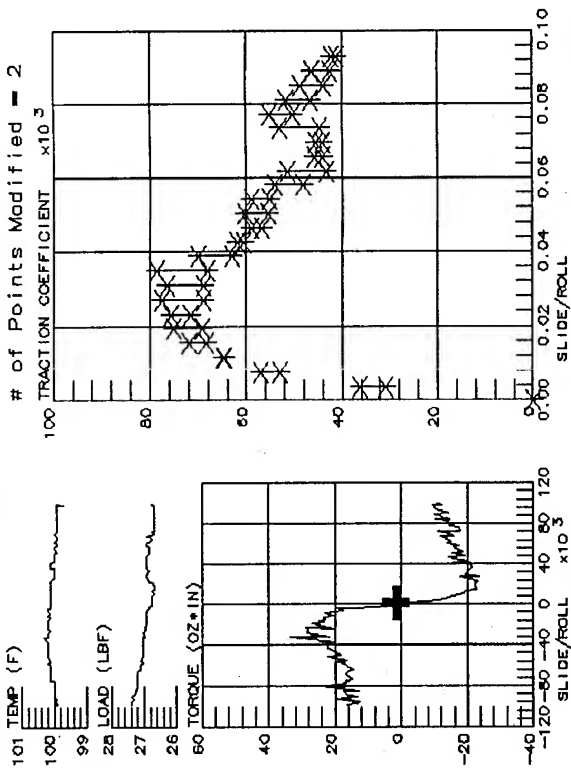


TRACTION DATA

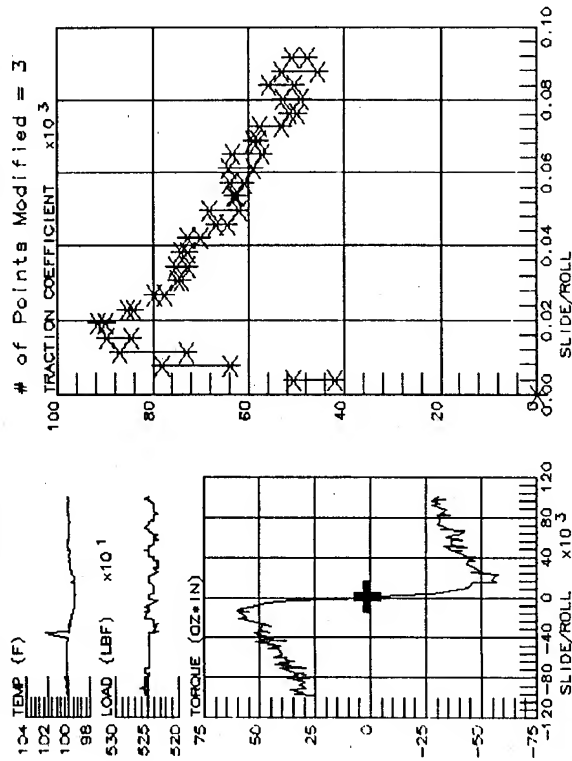
CB 71-6 Krytox 143 ac FILE: 71-8-02 #53
100F 12LBF 7639RPM #11



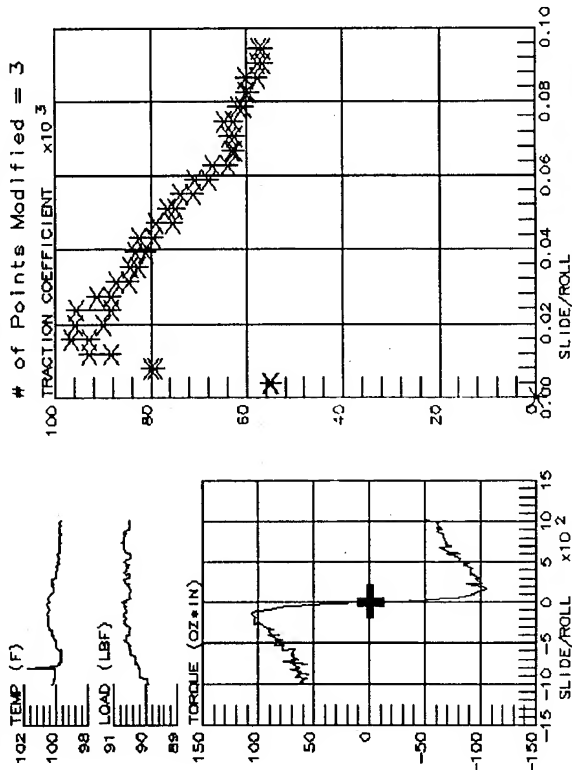
CB 71-6 Krytox 143 ac FILE: 71-8-02 #54
100F 27LBF 7639RPM #12



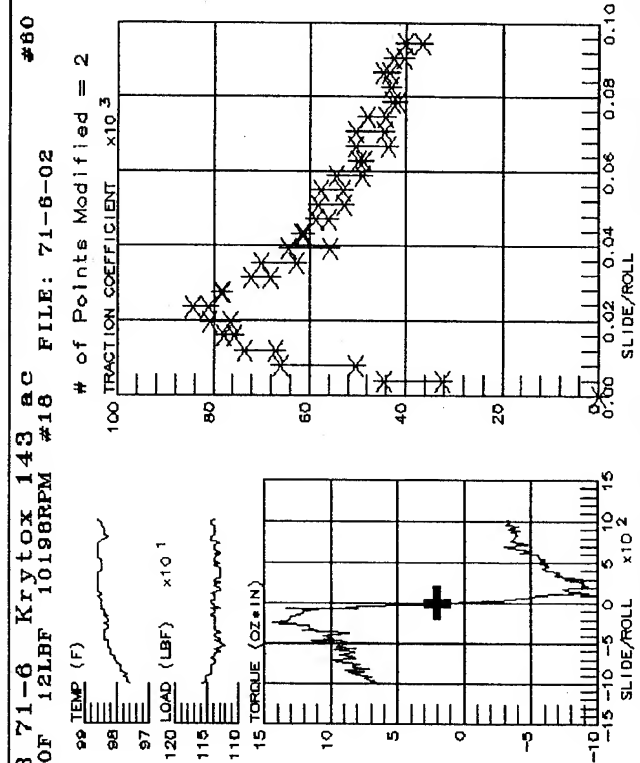
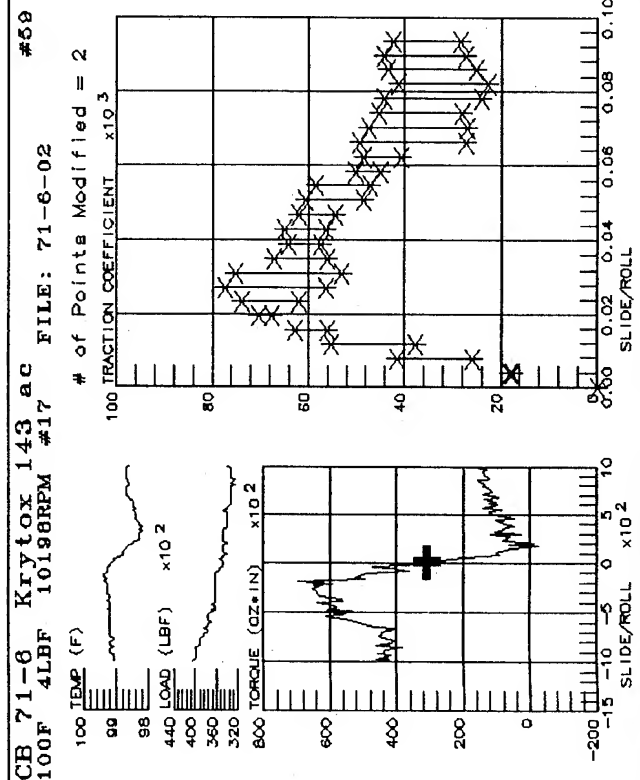
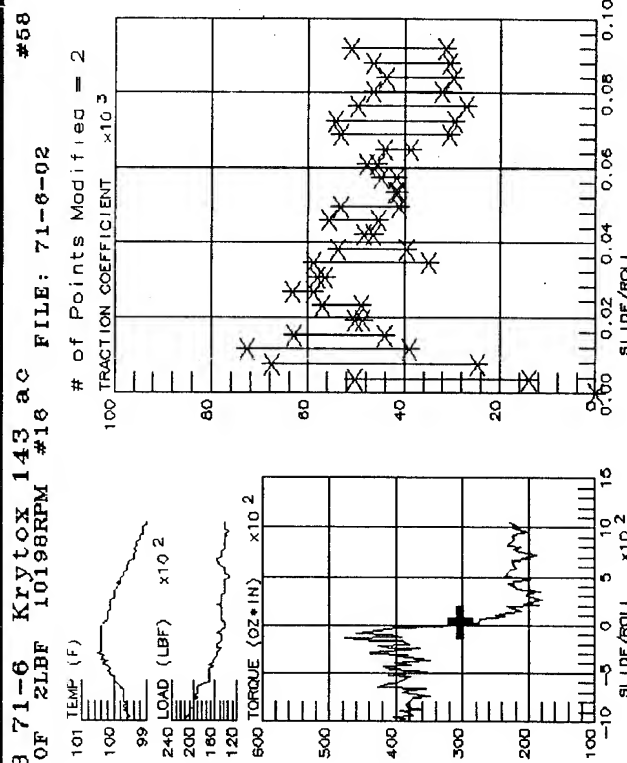
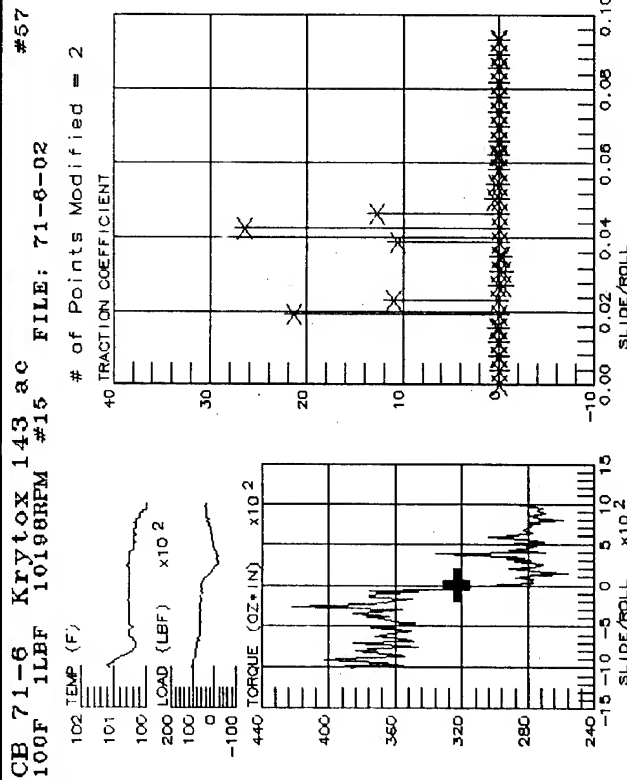
CB 71-6 Krytox 143 ac FILE: 71-8-02 #55
100F 53LBF 7639RPM #13



CB 71-6 Krytox 143 ac FILE: 71-8-02 #56
100F 91LBF 7639RPM #14

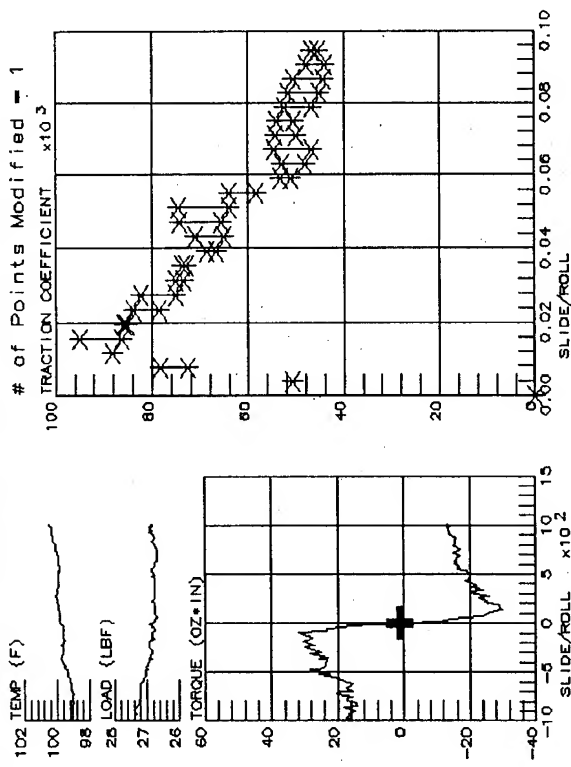


TRACTION DATA

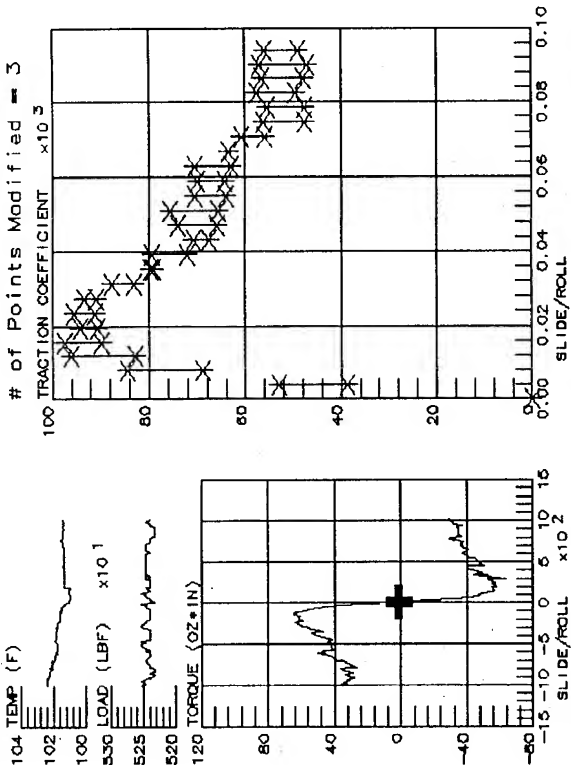


TRACTION DATA

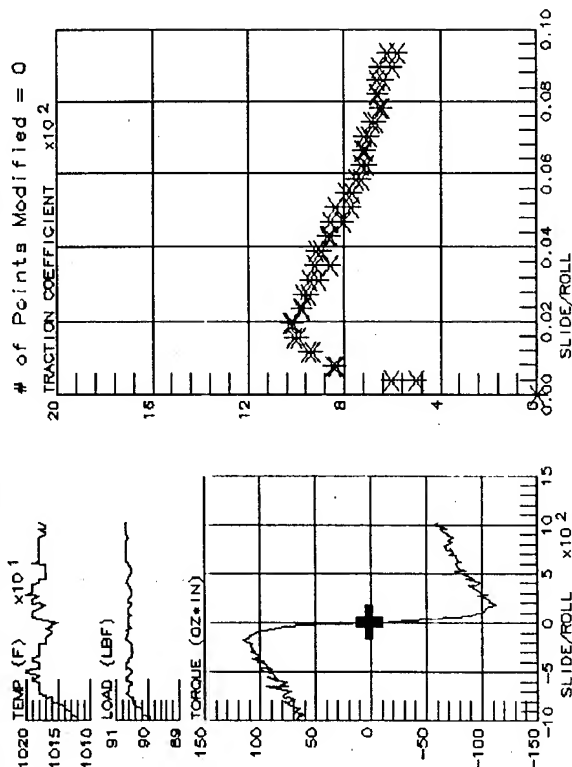
CB 71-6 Krytox 143 ac #61
100F 27LBF 10198RPM #19 FILE: 71-6-02



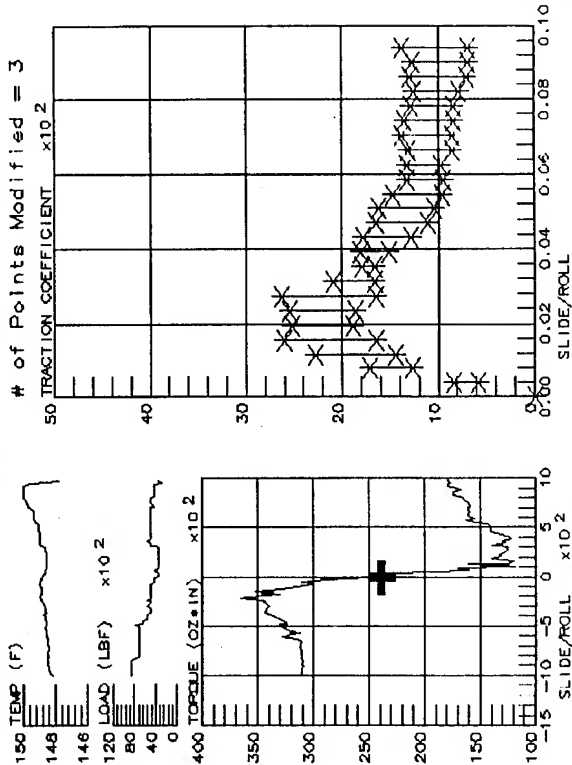
CB 71-6 Krytox 143 ac #62
100F 53LBF 10198RPM #20 FILE: 71-6-02



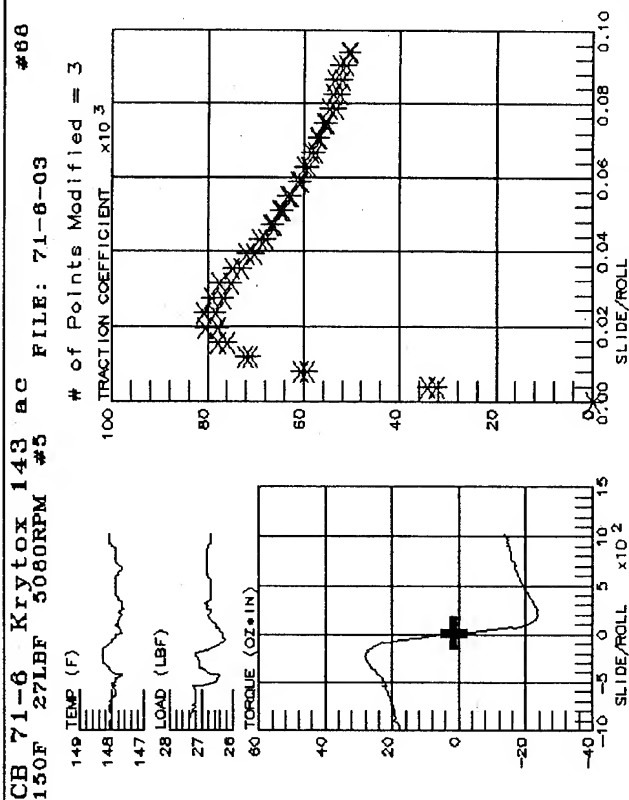
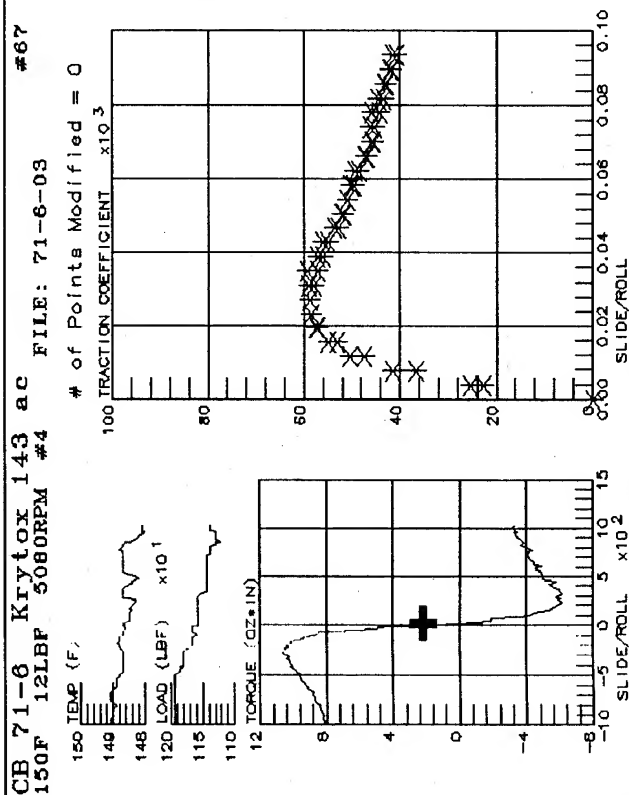
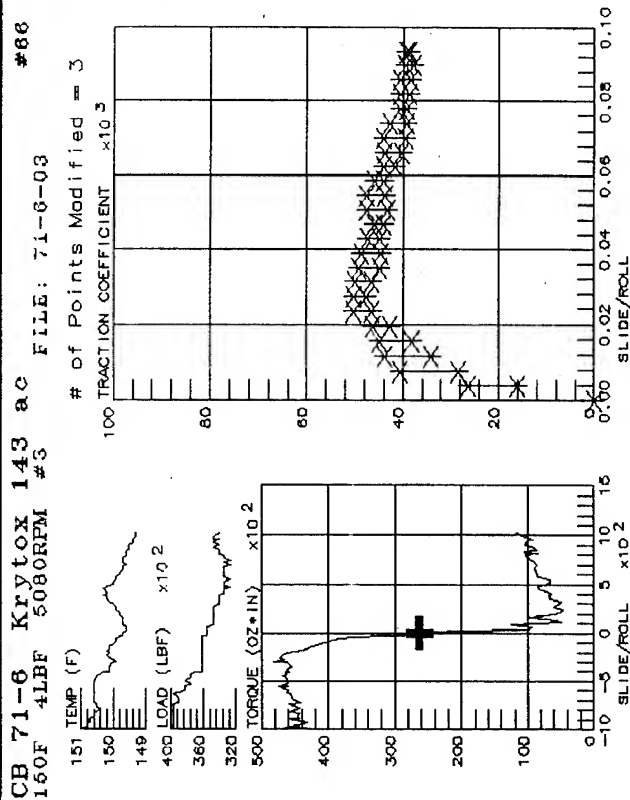
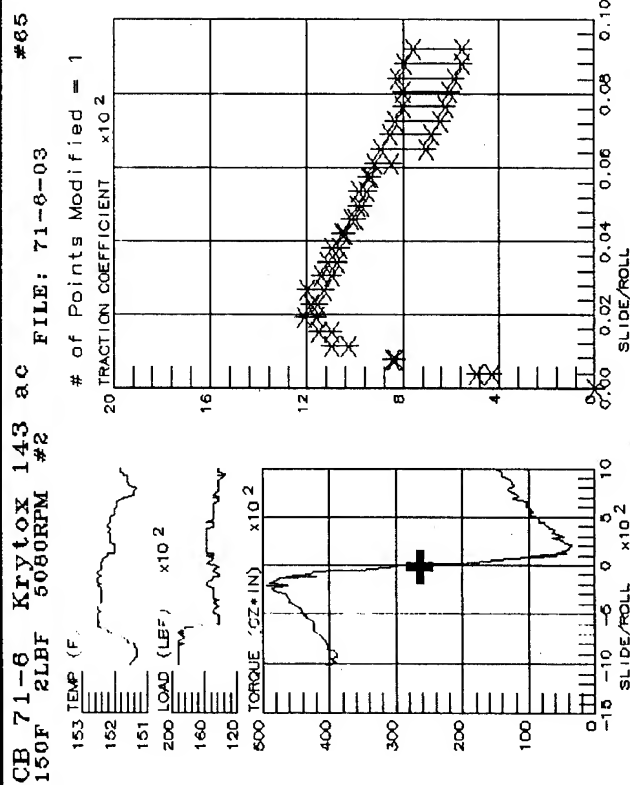
CB 71-6 Krytox 143 ac #63
100F 91LBF 10198RPM #21 FILE: 71-6-02



CB 71-6 Krytox 143 ac #64
150F 11LBF 5080RPM #1 FILE: 71-6-03



TRACTION DATA

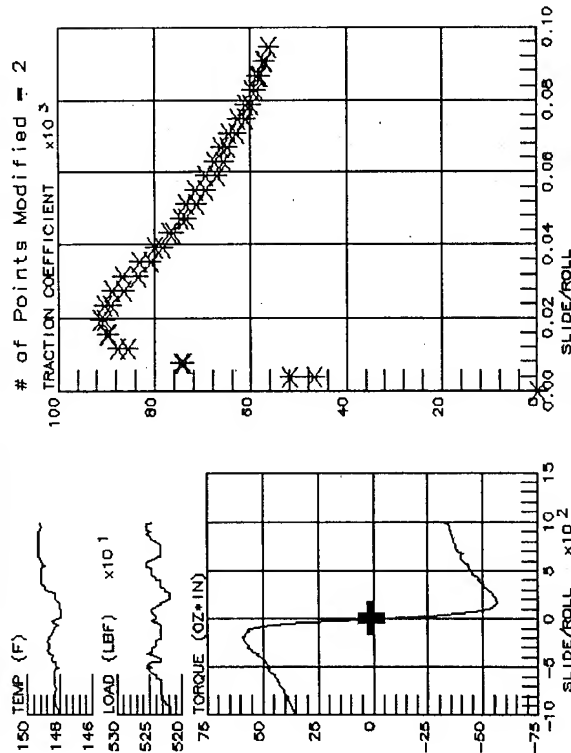


TRACTION DATA

CB 71-6 Krytox 143 ac FILE: 71-6-03 #69

150F 53LBF 5080RPM #6

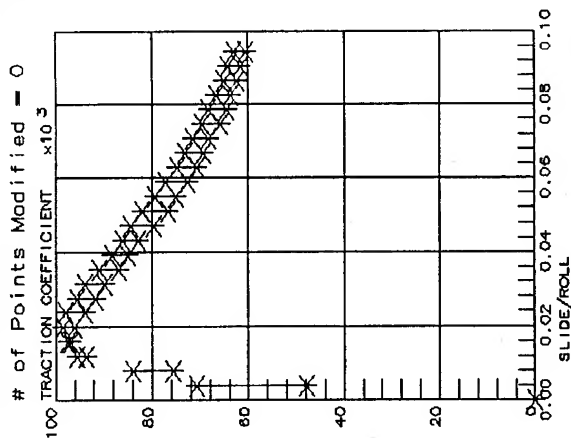
of Points Modified = 2



CB 71-6 Krytox 143 ac FILE: 71-6-03 #70

150F 91LBF 5080RPM #7

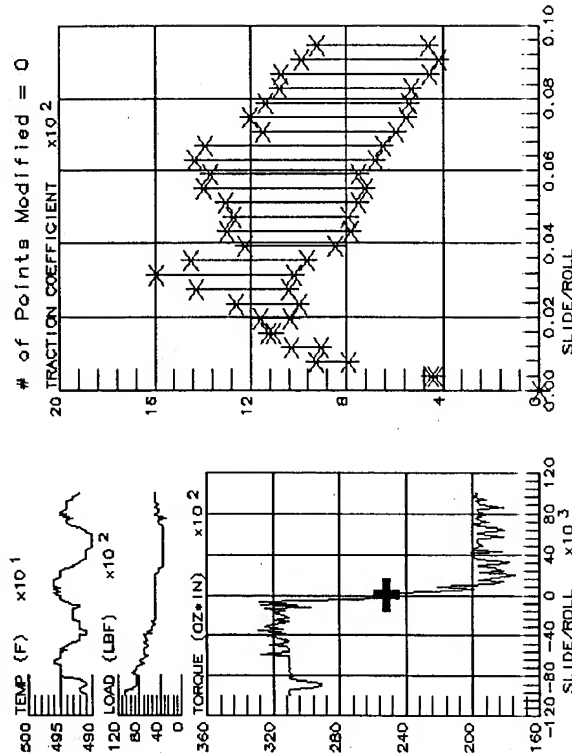
of Points Modified = 0



CB 71-6 Krytox 143 ac FILE: 71-6-03 #71

150F 11LBF 7639RPM #8

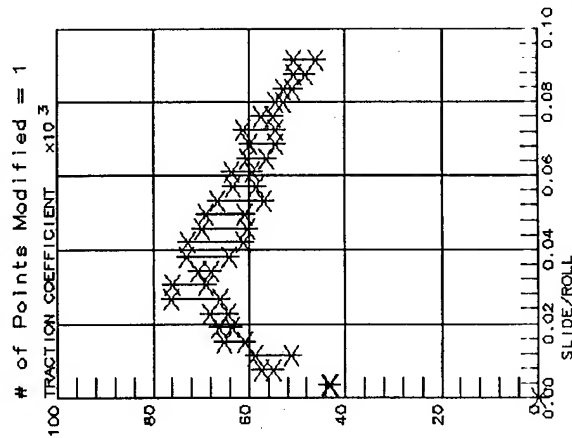
of Points Modified = 0



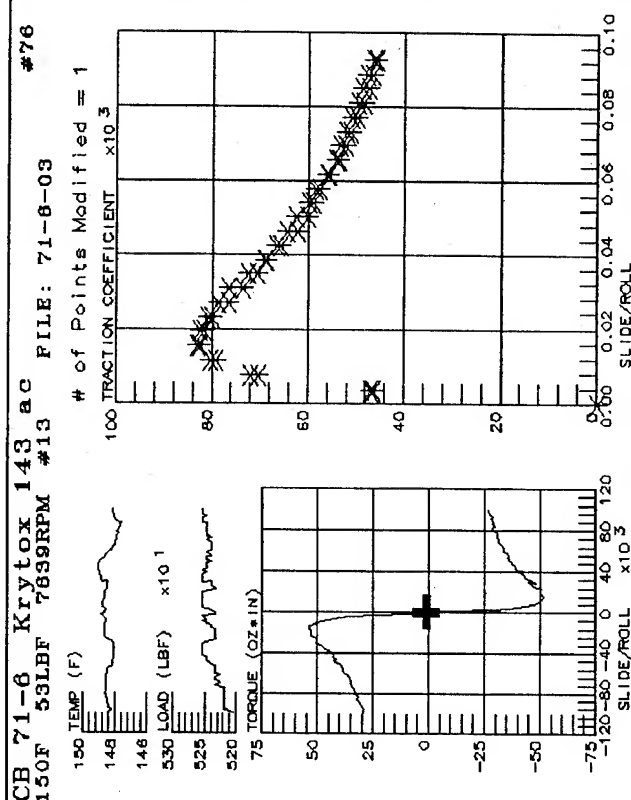
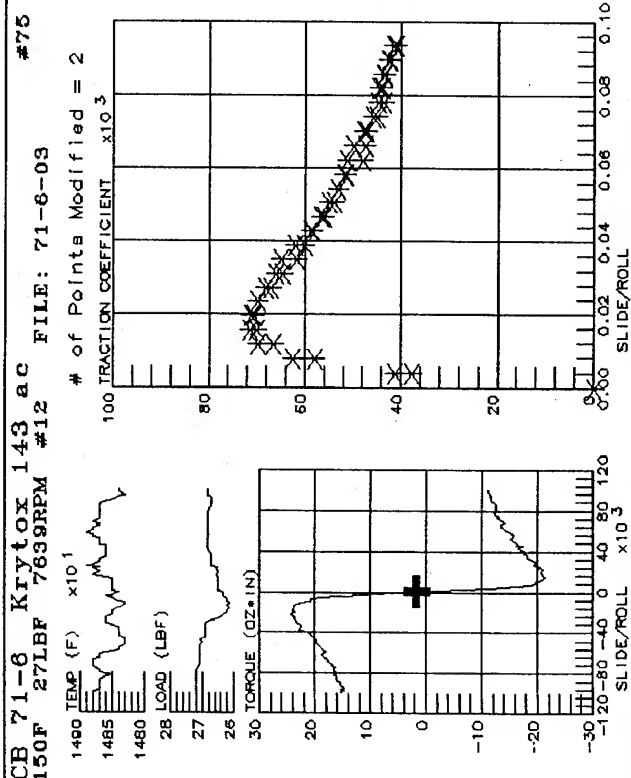
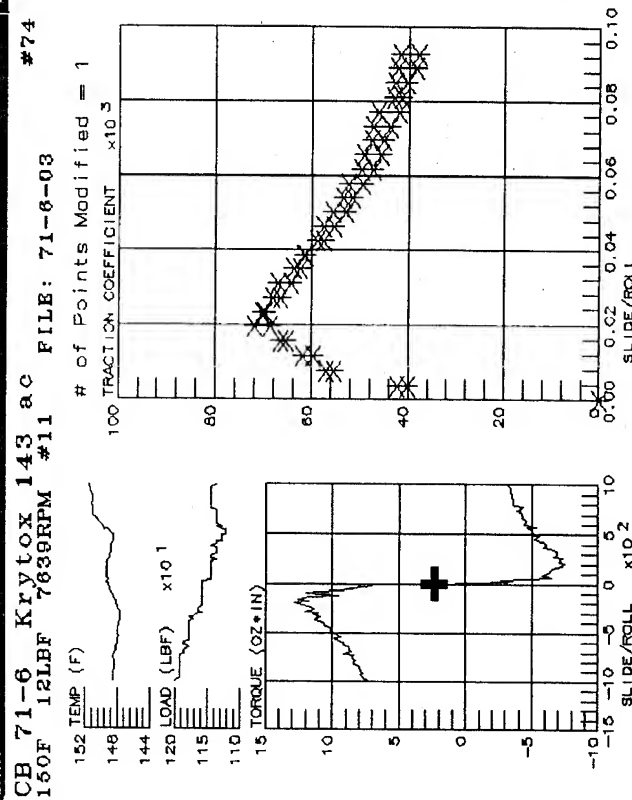
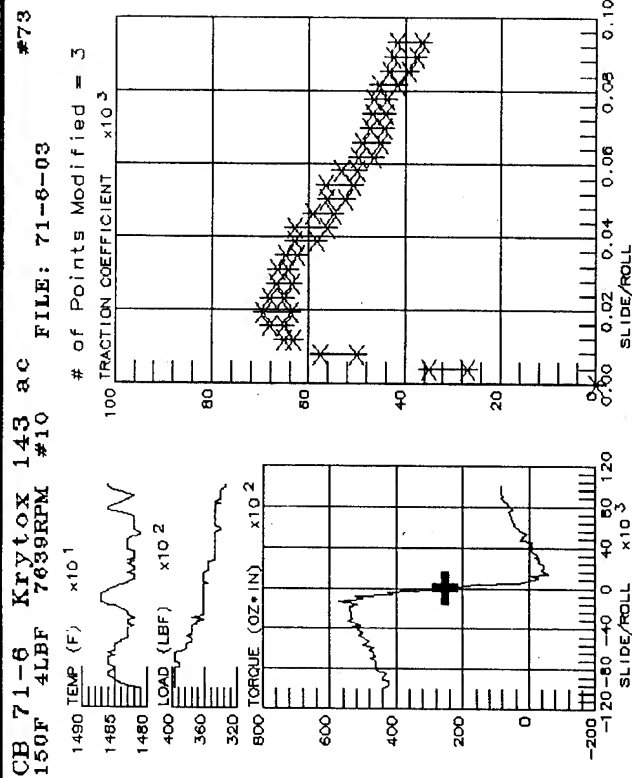
CB 71-6 Krytox 143 ac FILE: 71-6-03 #72

150F 2LBF 7639RPM #9

of Points Modified = 1

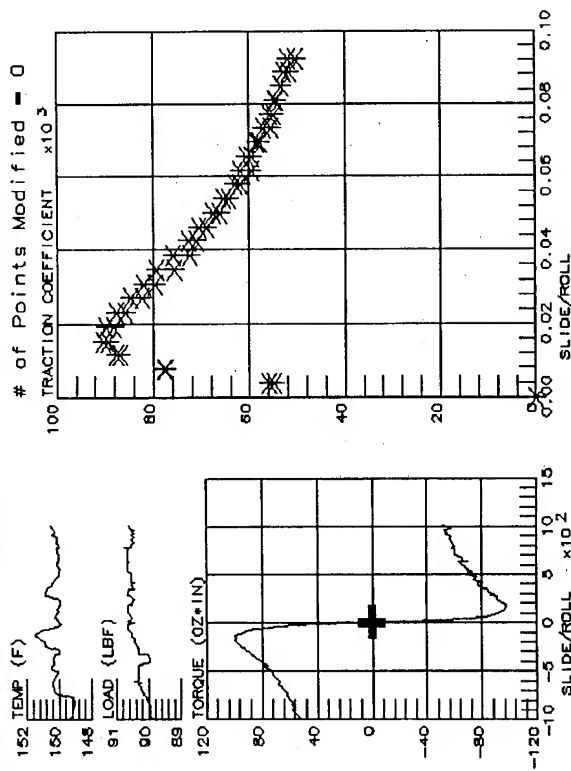


TRACTION DATA

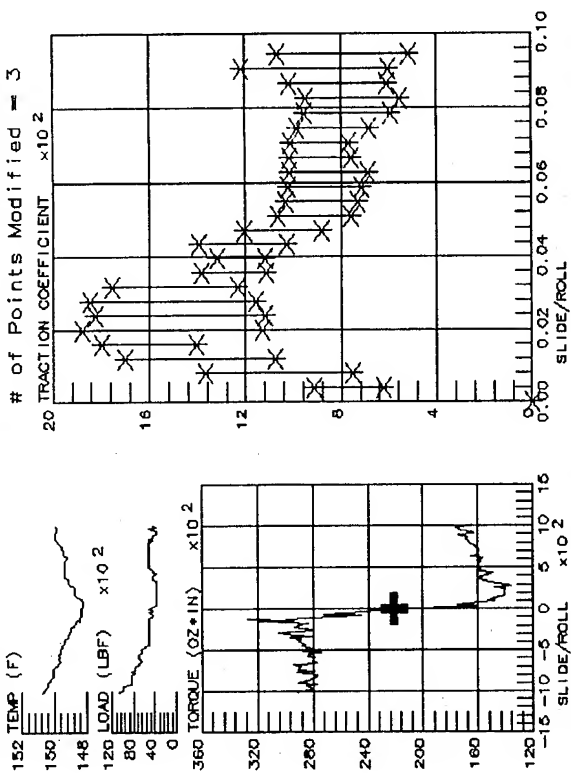


TRACTION DATA

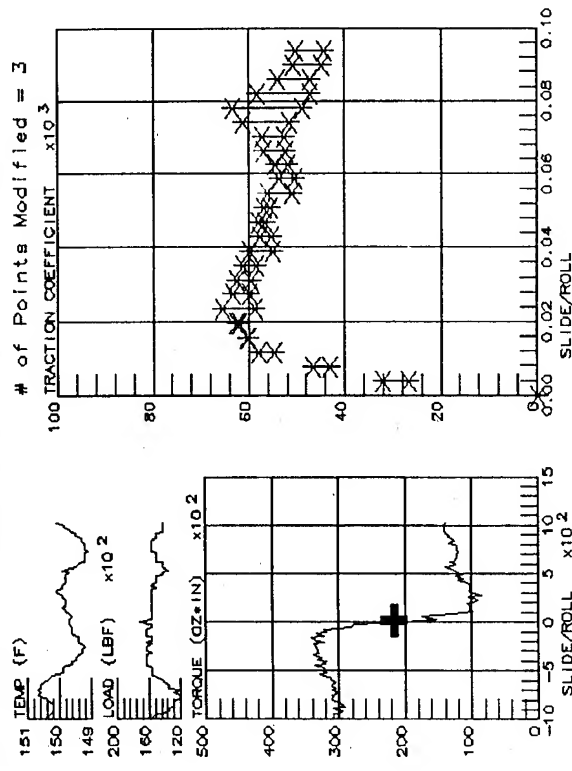
CB 71-6 Krytox 143 ac #77
150F 91LBF 7639RPM #14 FILE: 71-6-03



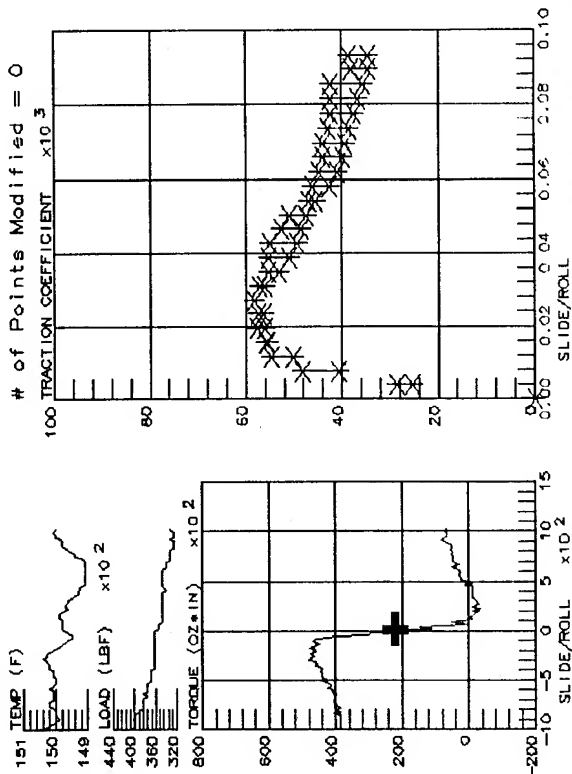
CB 71-6 Krytox 143 ac #78
150F 1LBF 1019RPM #15 FILE: 71-6-03



CB 71-6 Krytox 143 ac #79
150F 2LBF 1019RPM #16 FILE: 71-6-03

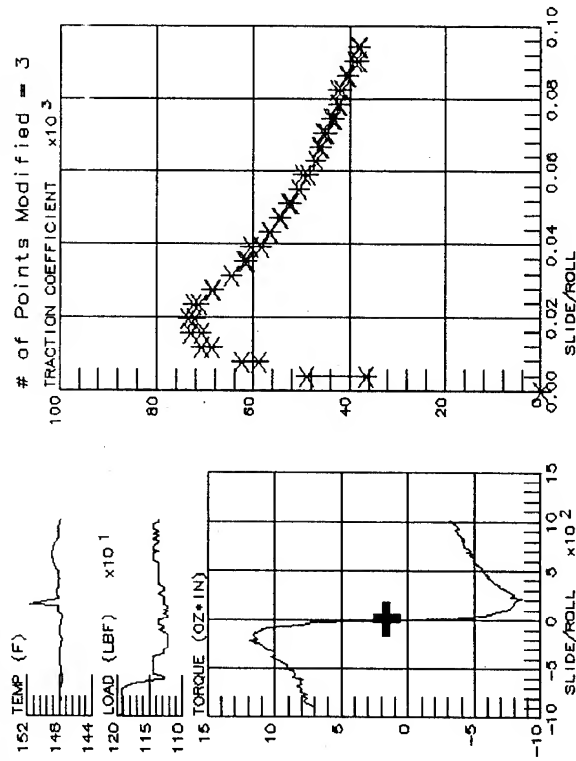


CB 71-6 Krytox 143 ac #80
150F 4LBF 1019RPM #17 FILE: 71-6-03

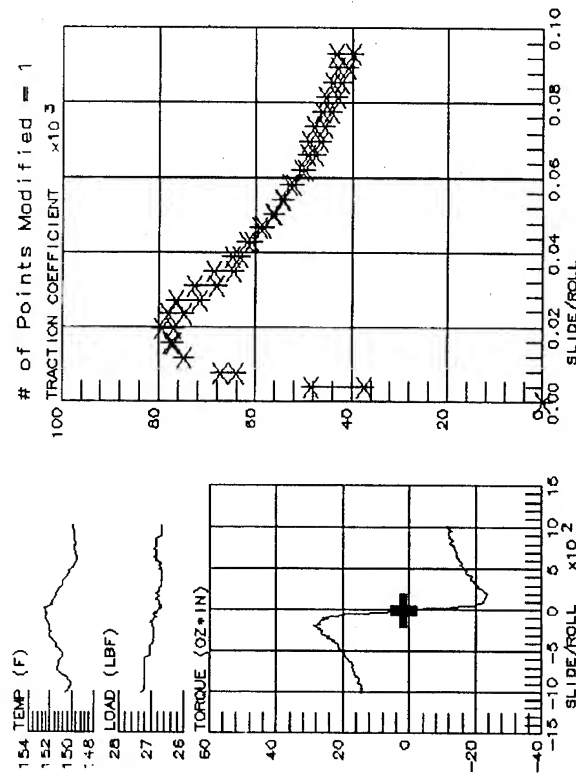


TRACTION DATA

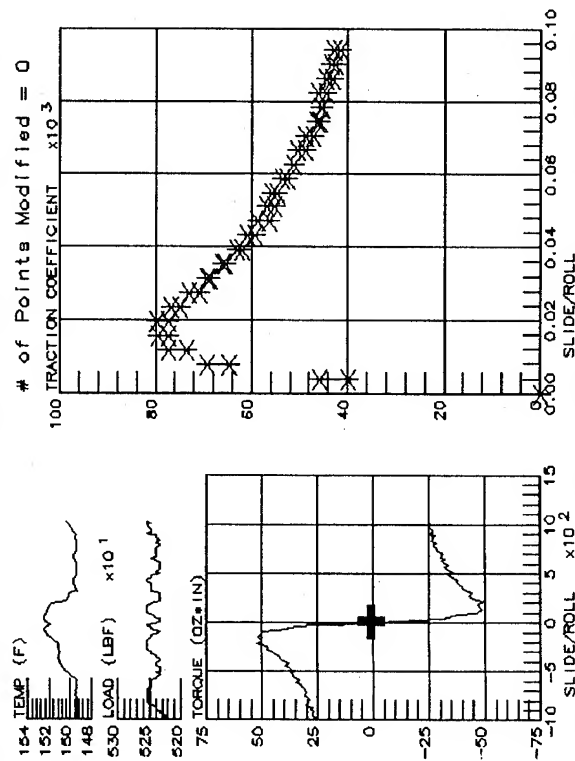
CB 71-6 Krytox 143 ac #81
150F 12LBF 10198RPM #18 FILE: 71-6-03



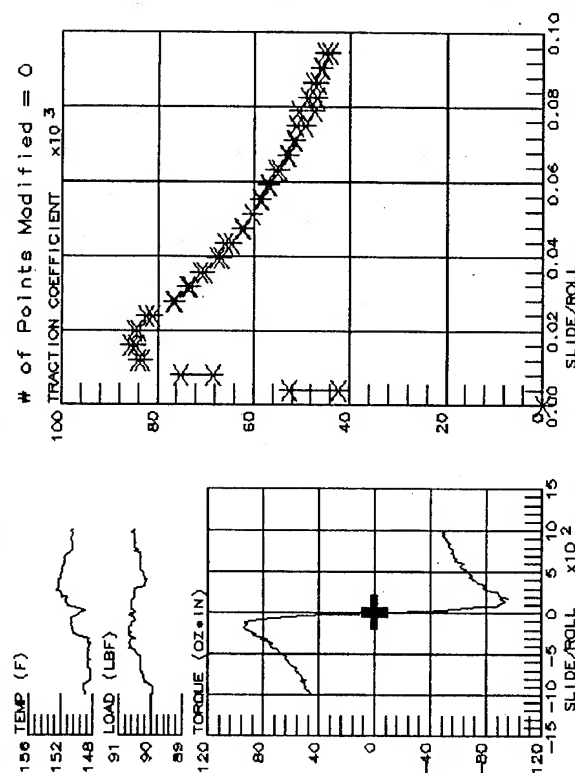
CB 71-6 Krytox 143 ac #82
150F 27LBF 10198RPM #19 FILE: 71-6-03



CB 71-6 Krytox 143 ac #83
150F 53LBF 10198RPM #20 FILE: 71-6-03

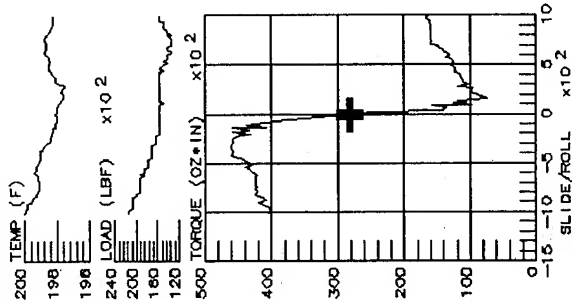
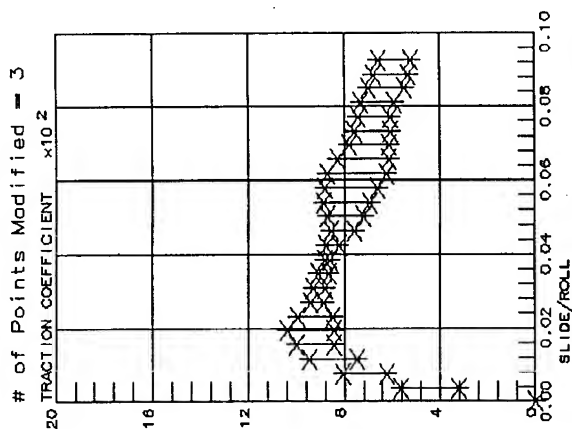


CB 71-6 Krytox 143 ac #84
150F 91LBF 10198RPM #21 FILE: 71-6-03

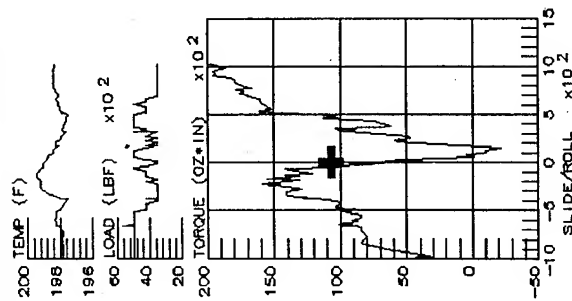
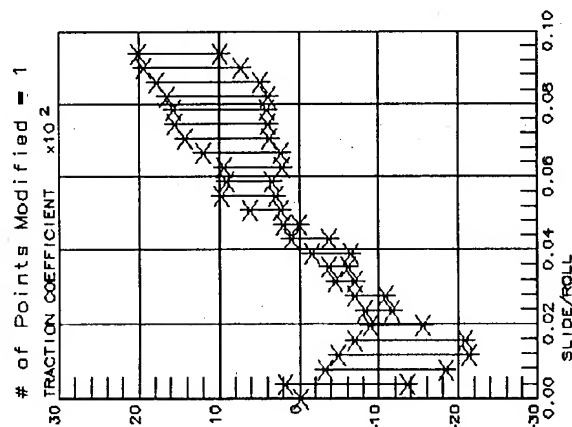


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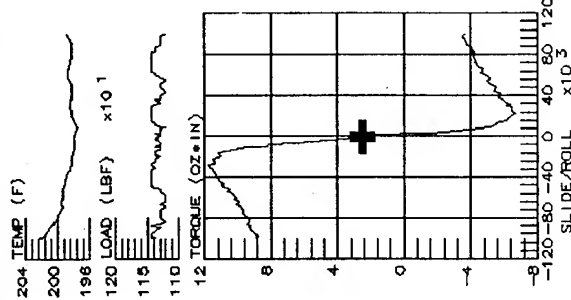
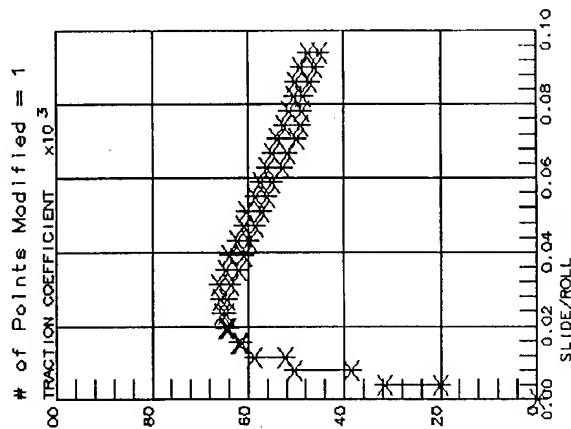
CB 71-6 Krytox 143 ac FILE: 71-6-04 #86
200F 2LBF 5080RPM #2



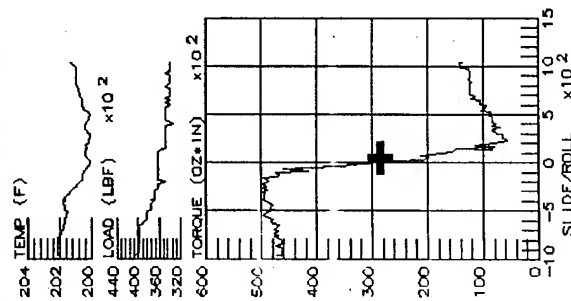
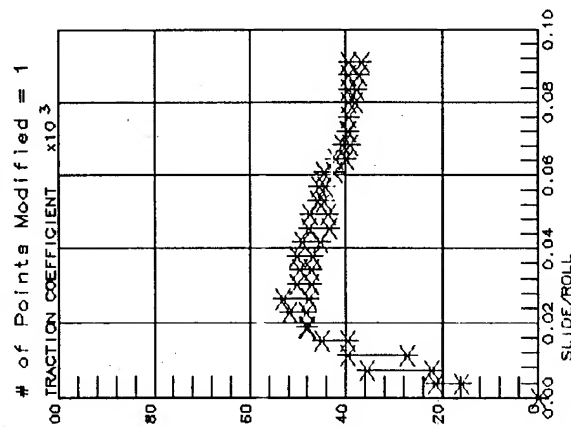
CB 71-6 Krytox 143 ac FILE: 71-6-04 #85
200F 1LBF 5080RPM #1



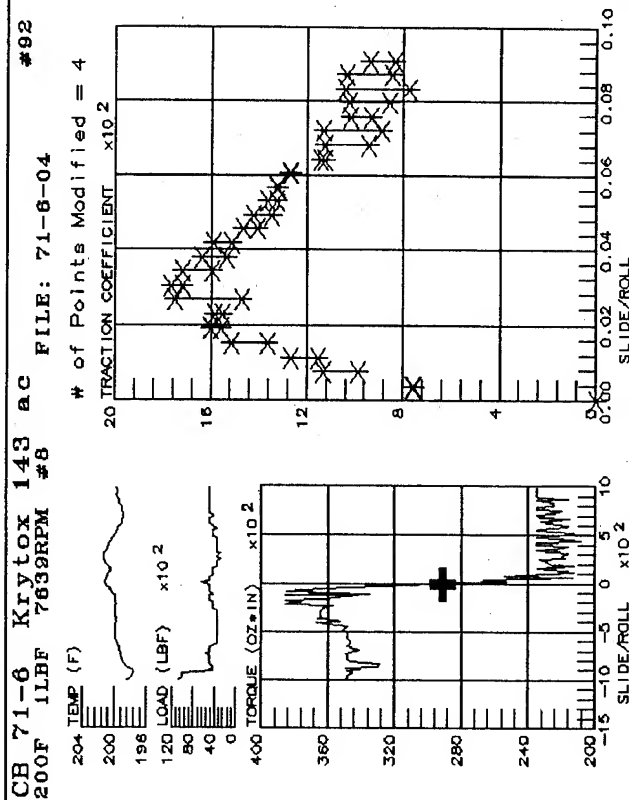
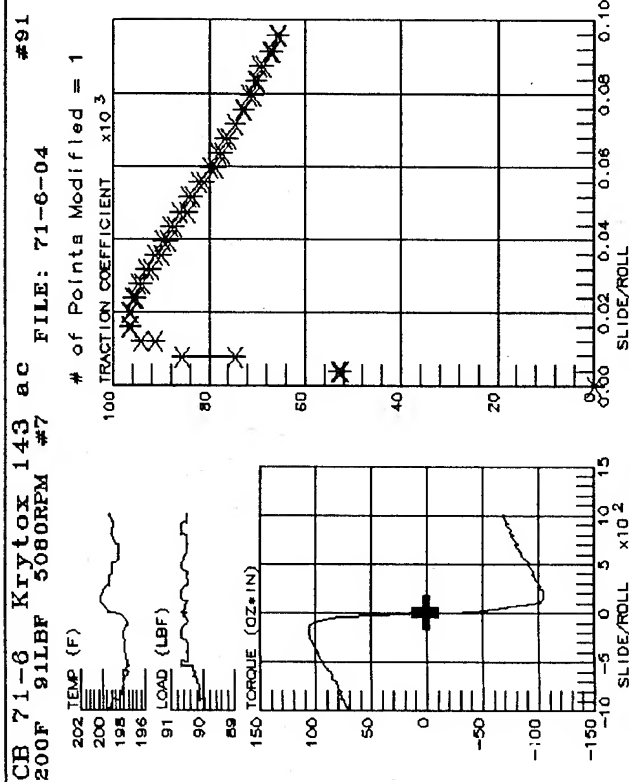
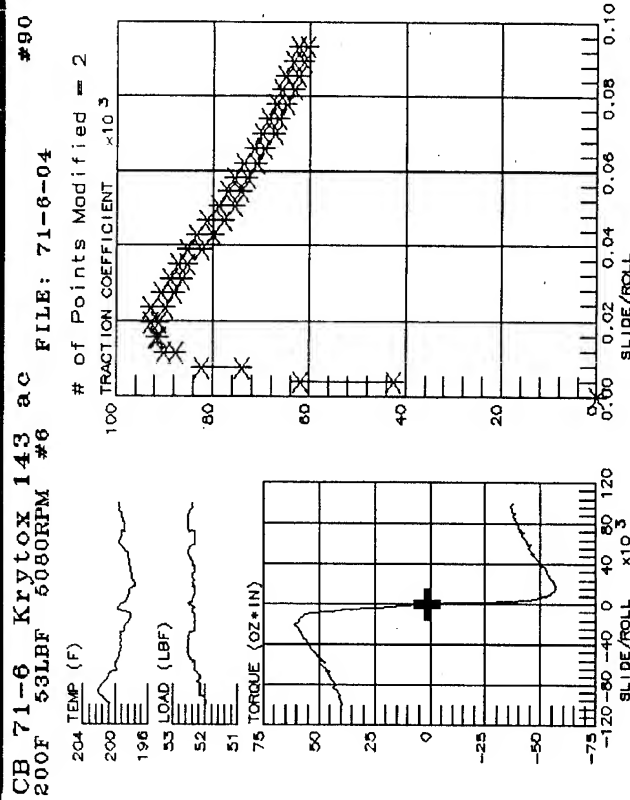
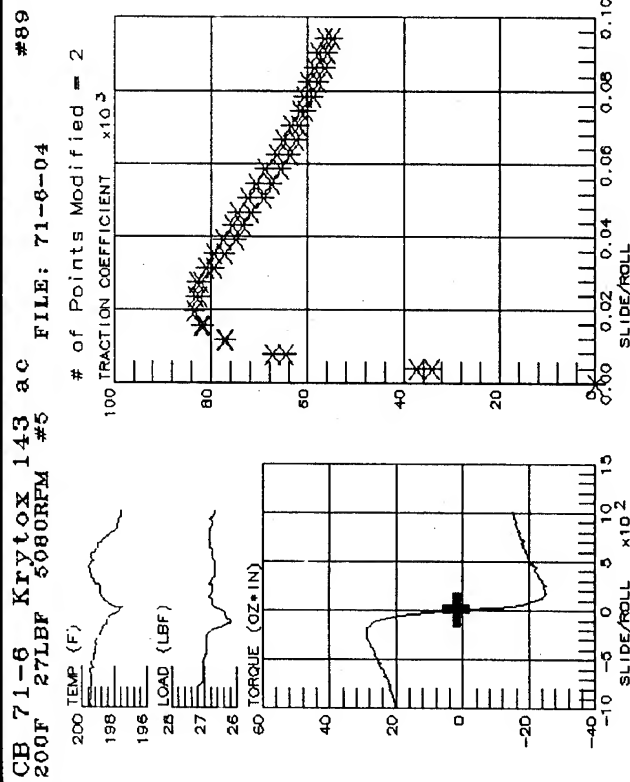
CB 71-6 Krytox 143 ac FILE: 71-6-04 #88
200F 12LBF 5080RPM #4



CB 71-6 Krytox 143 ac FILE: 71-6-04 #87
200F 4LBF 5080RPM #3



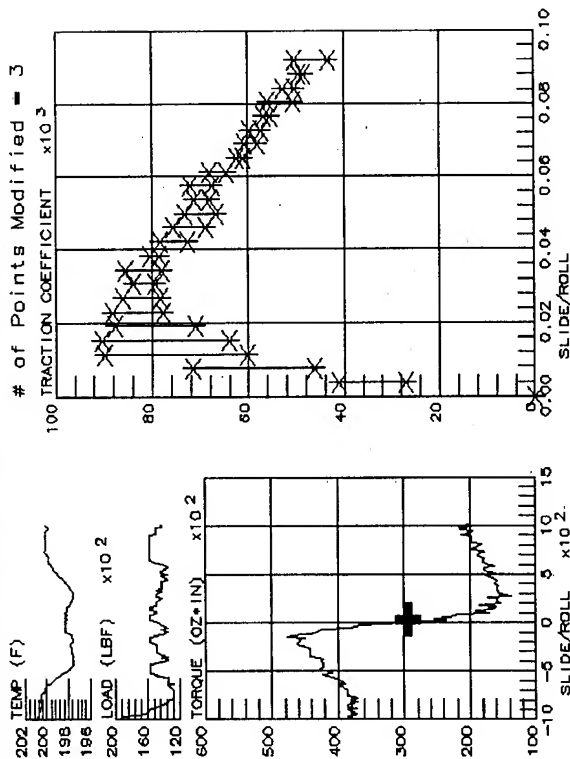
TRACTION DATA



TRACTION DATA

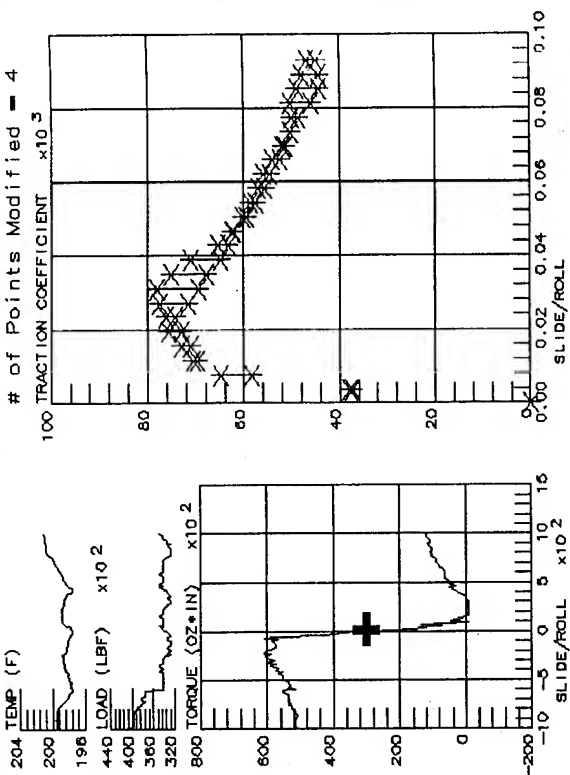
CB 71-6 Krytox 143 ac FILE: 71-6-04 #93
200F 2LBF 7639RPM #9

of Points Modified = 3



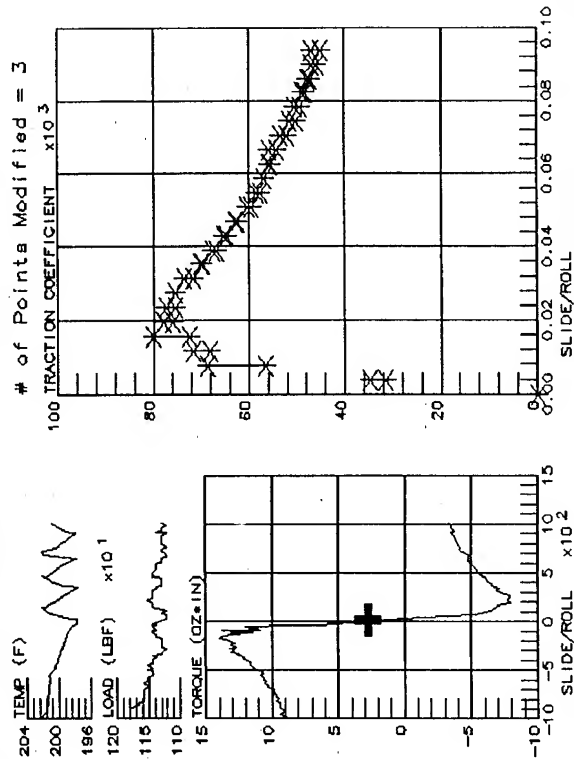
CB 71-6 Krytox 143 ac FILE: 71-6-04 #94
200F 4LBF 7639RPM #10

of Points Modified = 4



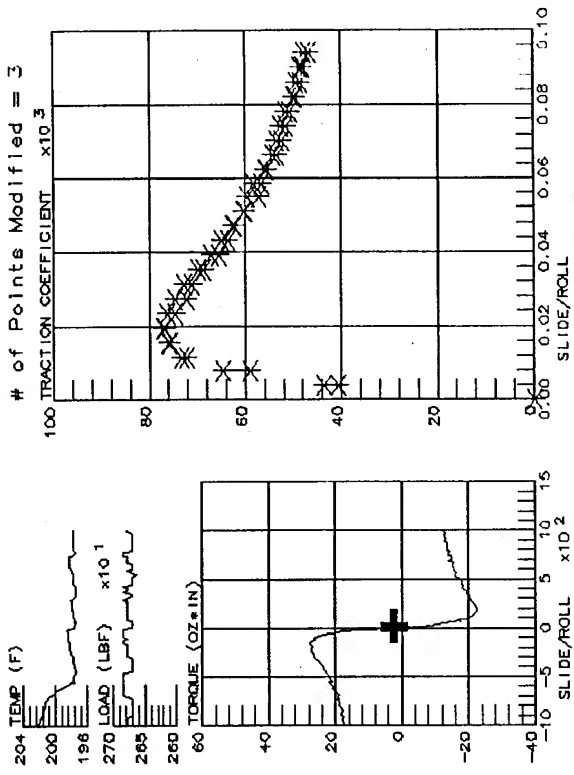
CB 71-6 Krytox 143 ac FILE: 71-6-04 #95
200F 12LBF 7639RPM #11

of Points Modified = 3



CB 71-6 Krytox 143 ac FILE: 71-6-04 #96
200F 27LBF 7639RPM #12

of Points Modified = 3

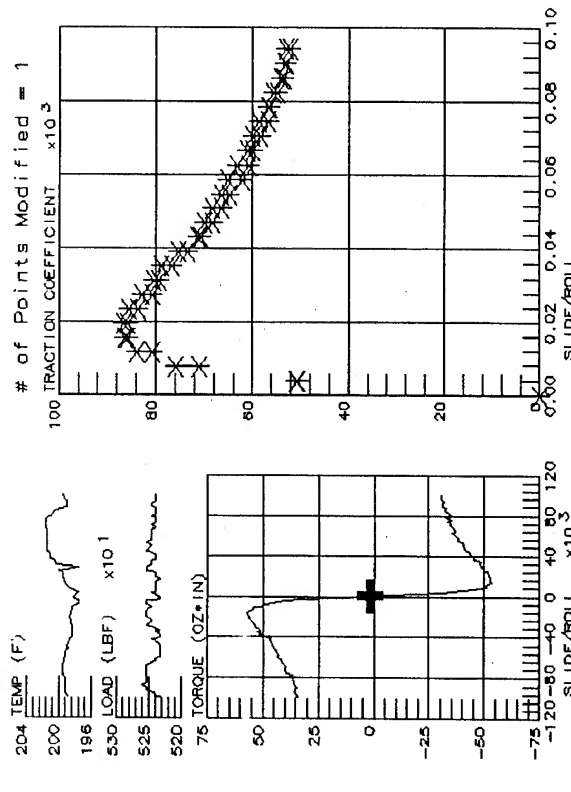


TRACTION DATA

CB 71-6 Krytox 143 ac
200F 53LBF 7839RPM #13 FILE: 71-8-04

#97

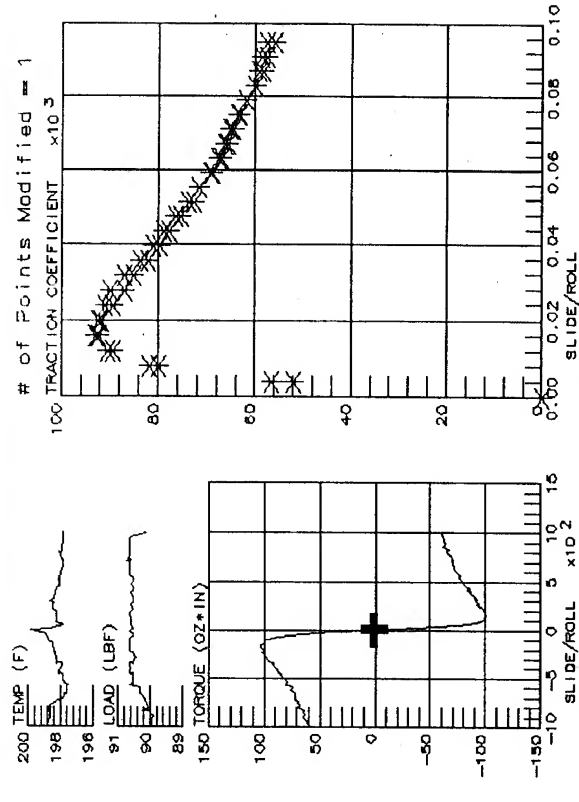
of Points Modified = 1



CB 71-6 Krytox 143 ac
200F 91LBF 7839RPM #14 FILE: 71-8-04

#98

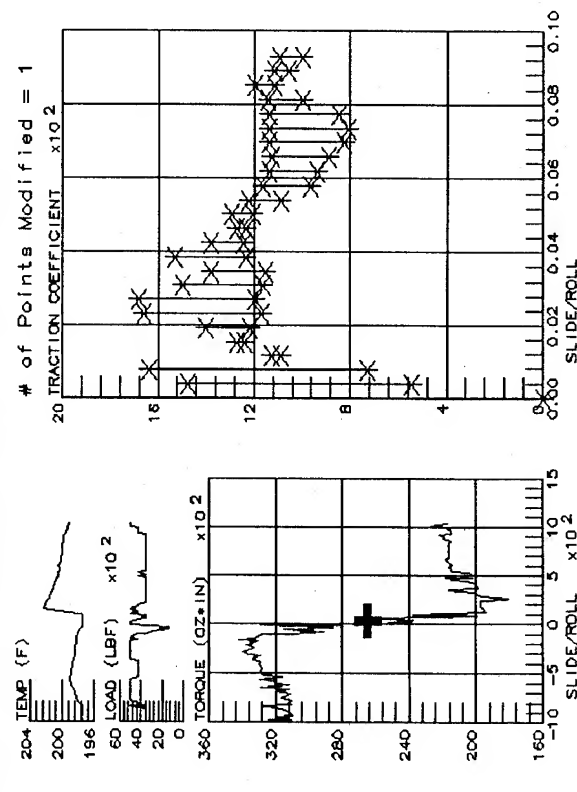
of Points Modified = 1



CB 71-6 Krytox 143 ac
200F 1LB 10198RPM #15 FILE: 71-8-04

#99

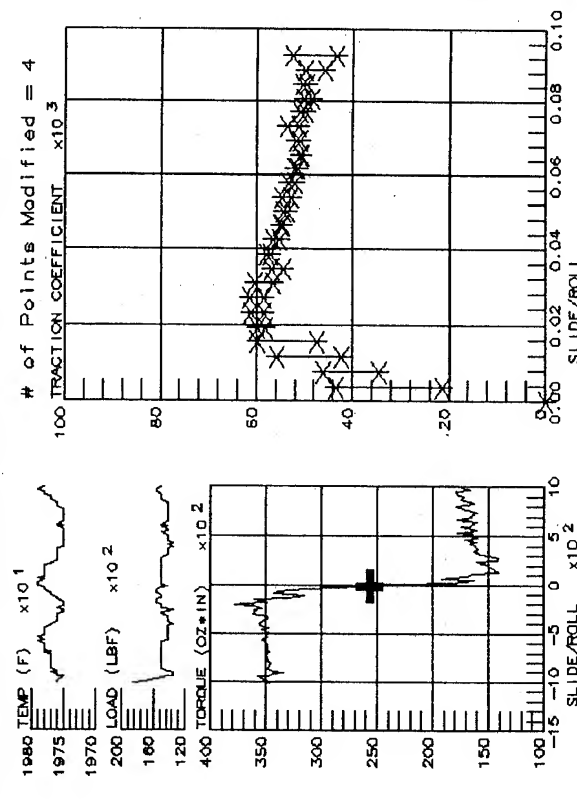
of Points Modified = 1



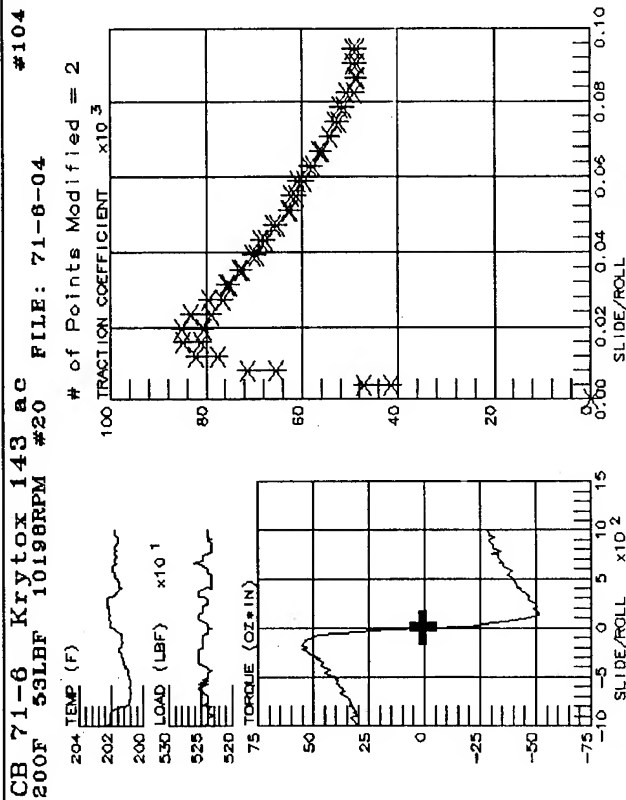
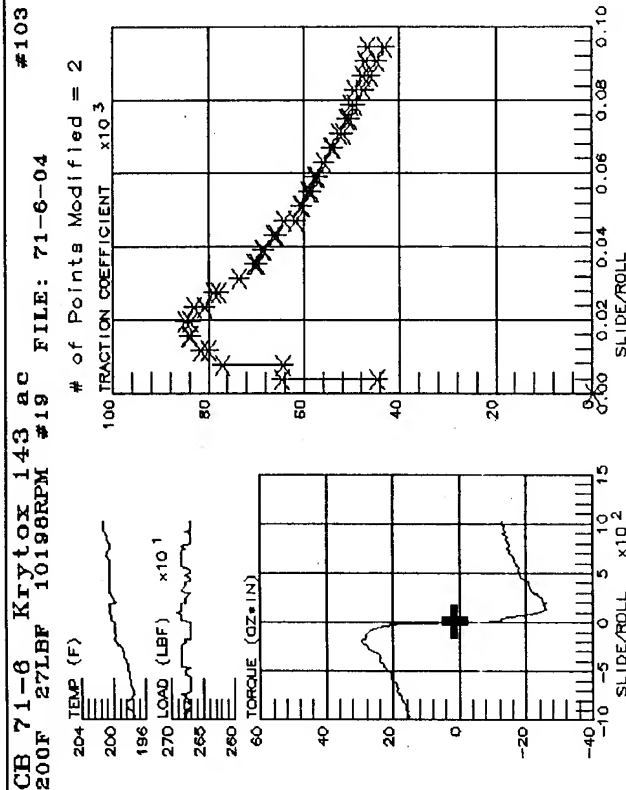
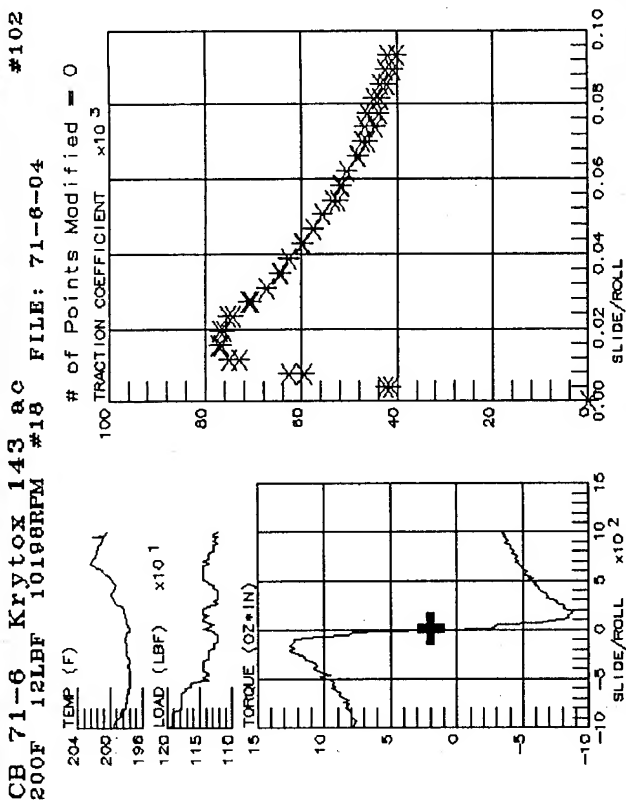
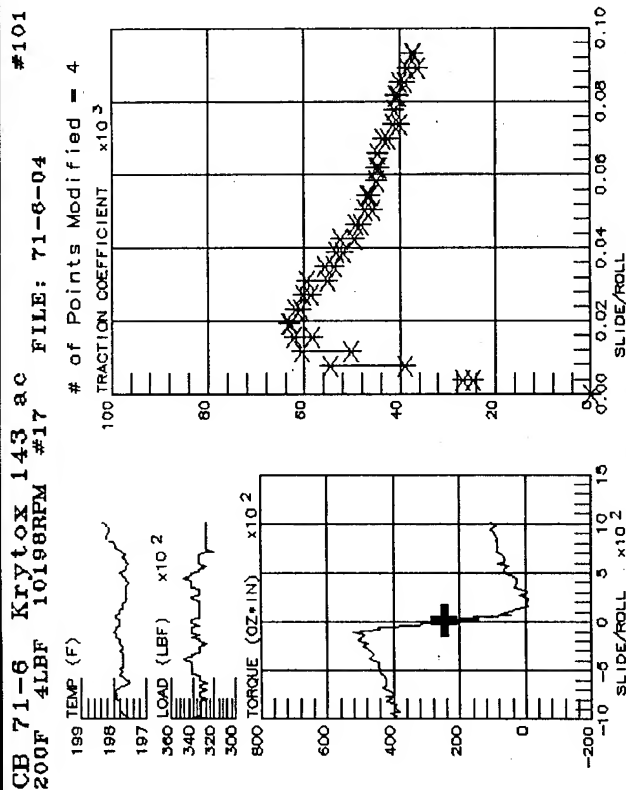
CB 71-6 Krytox 143 ac
200F 2LBF 10198RPM #16 FILE: 71-8-04

#100

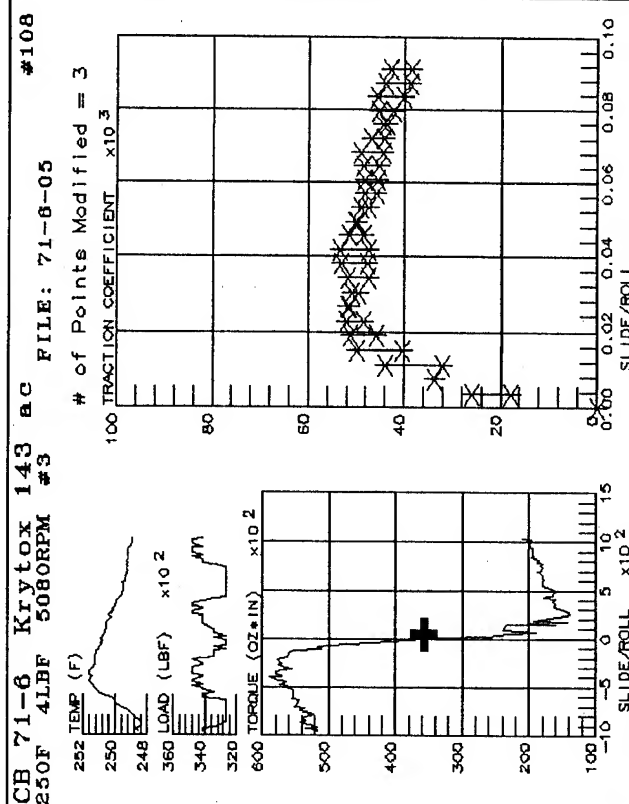
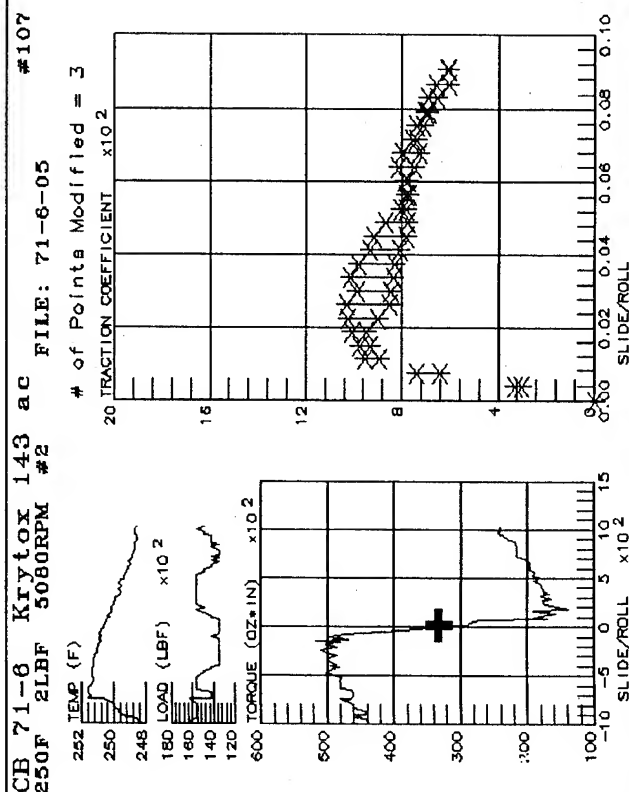
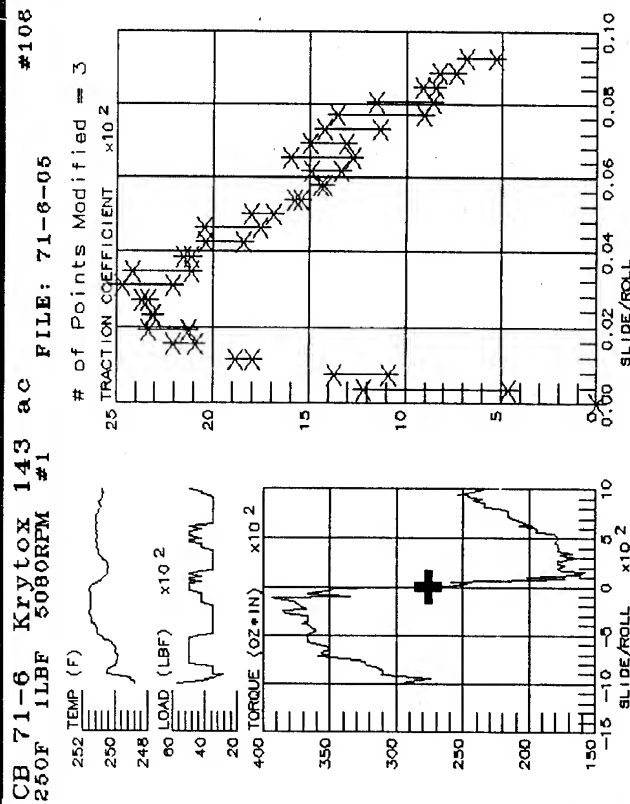
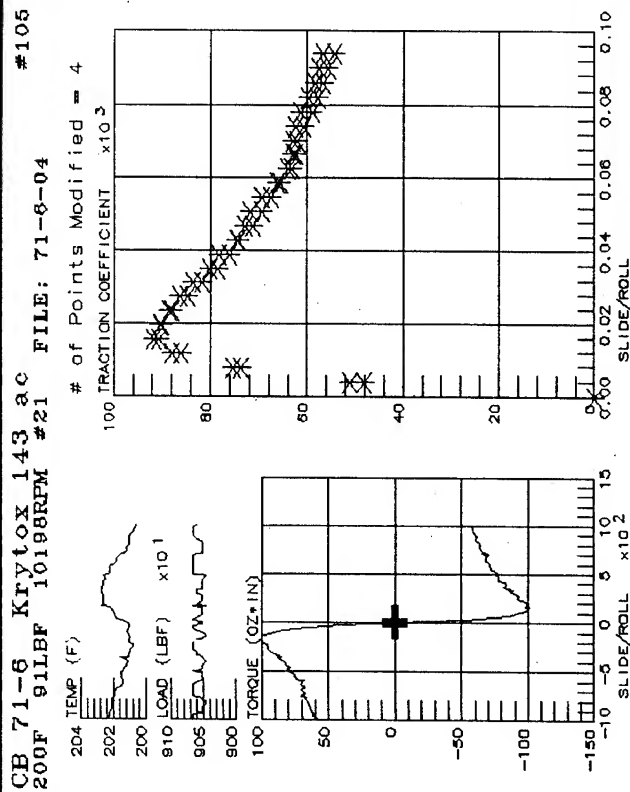
of Points Modified = 4



TRACTION DATA



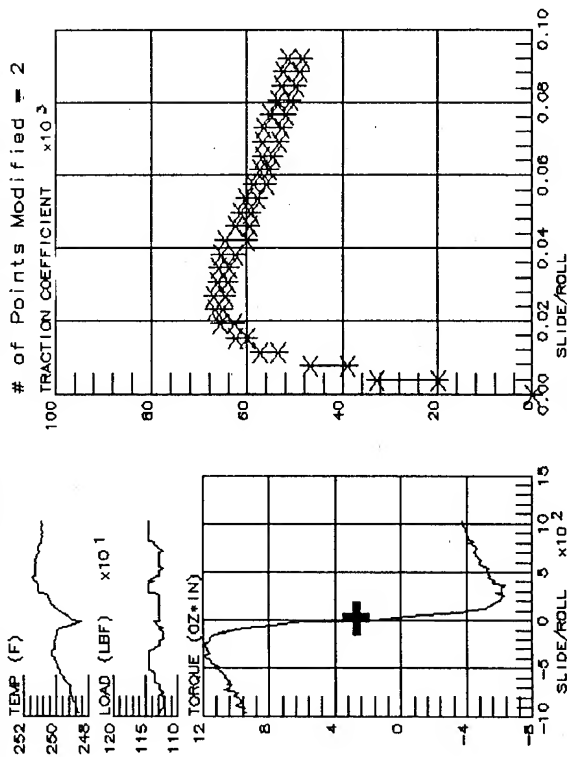
TRACTION DATA



TRACTION DATA

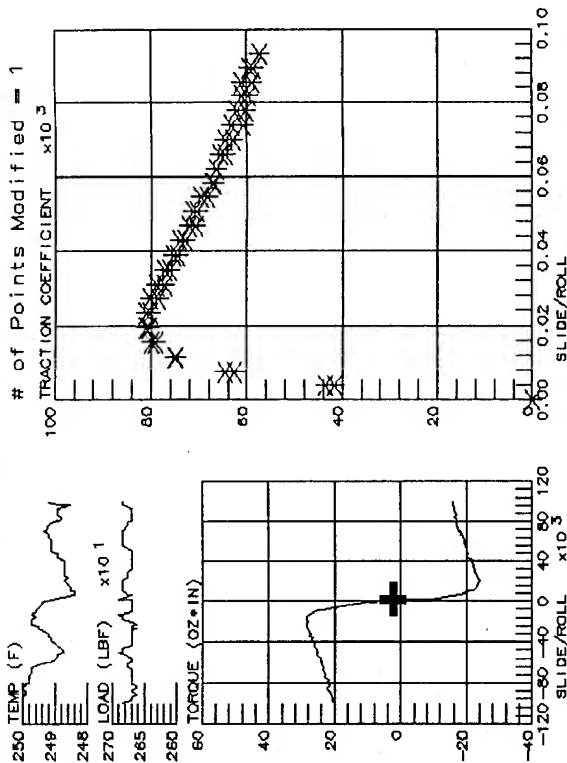
CB 71-6 Krytox 143 ac FILE: 71-6-05 #109

of Points Modified = 2



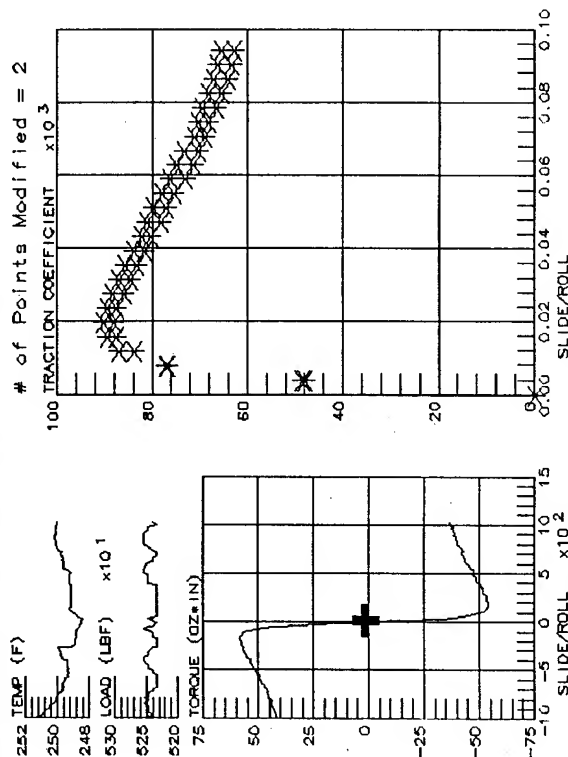
CB 71-6 Krytox 143 ac FILE: 71-6-05 #110

of Points Modified = 1



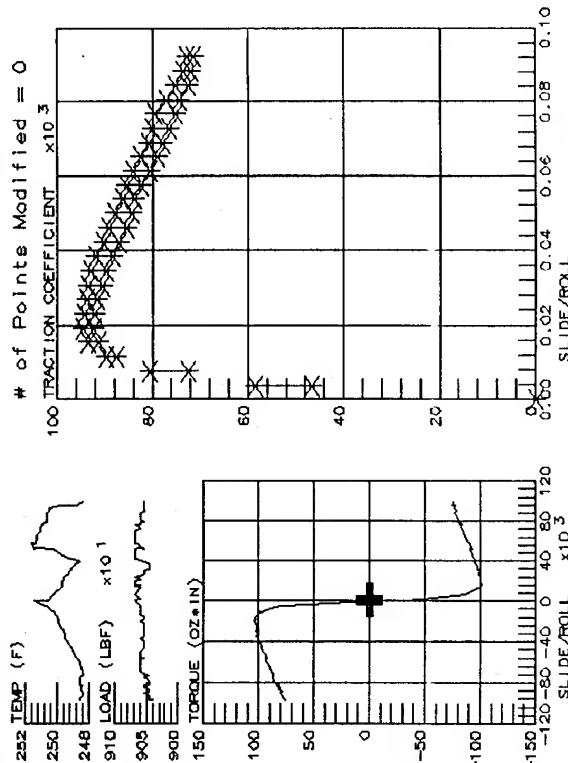
CB 71-6 Krytox 143 ac FILE: 71-6-05 #111

of Points Modified = 2



CB 71-6 Krytox 143 ac FILE: 71-6-05 #112

of Points Modified = 0

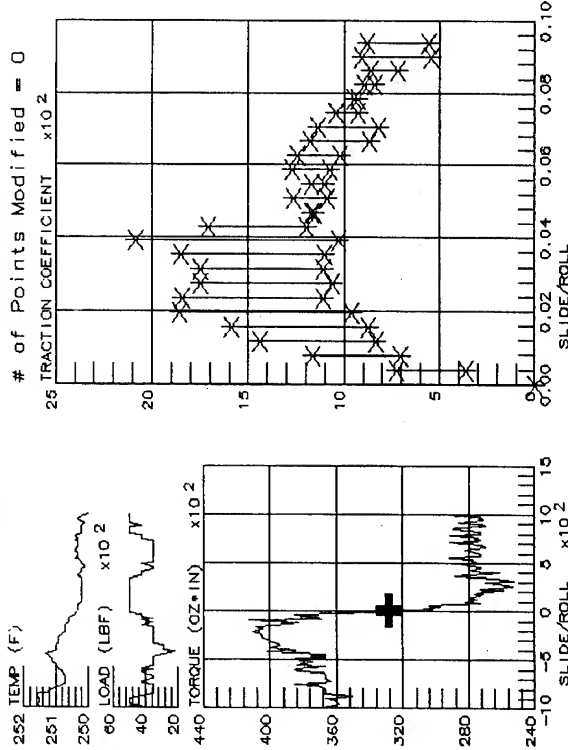


TRACTION DATA

CB 71-6 Krytox 143 ac FILE: 71-6-05
250F 1LBF 7639RPM #8

#113

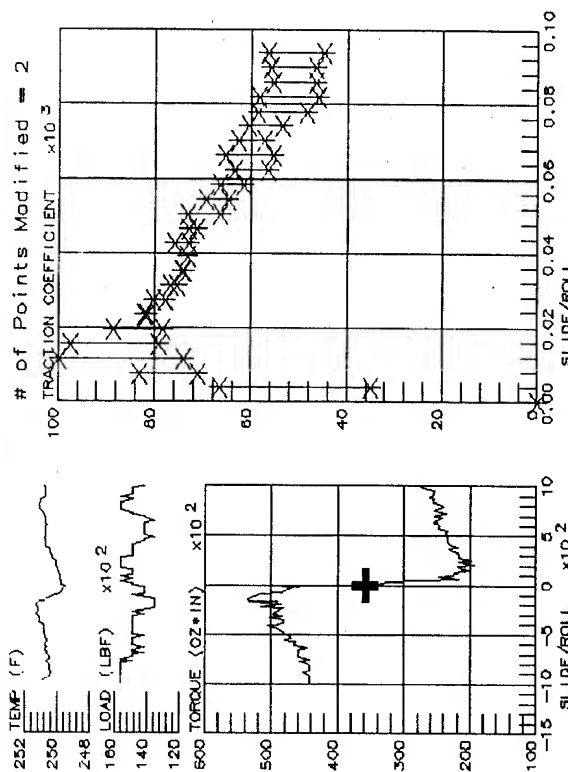
of Points Modified = 0



CB 71-6 Krytox 143 ac FILE: 71-6-05
250F 2LBF 7639RPM #9

#114

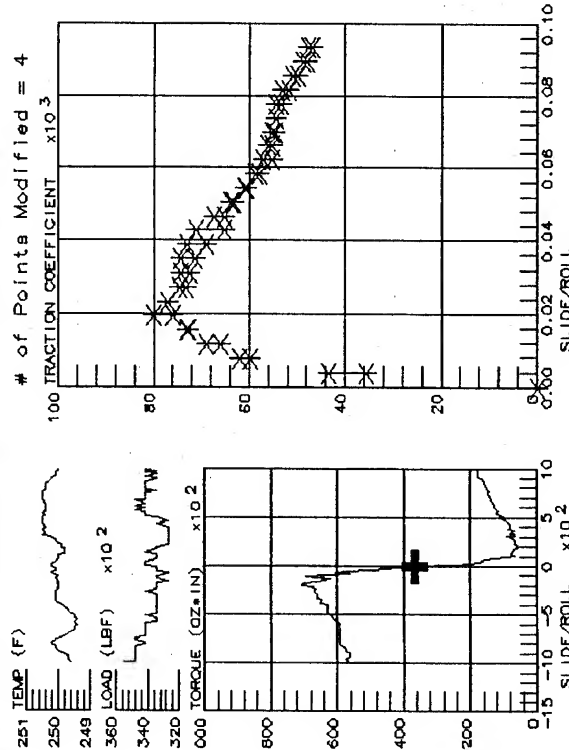
of Points Modified = 2



CB 71-6 Krytox 143 ac FILE: 71-6-05
250F 4LBF 7639RPM #10

#115

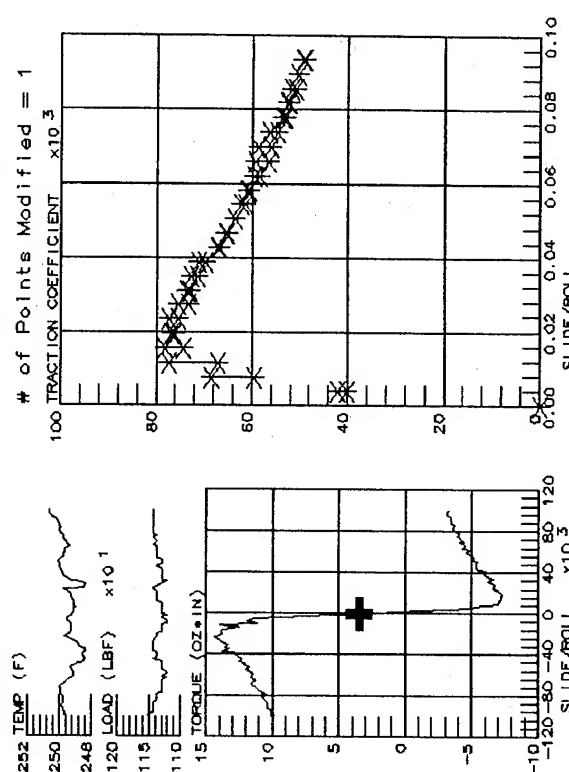
of Points Modified = 4



CB 71-6 Krytox 143 ac FILE: 71-6-05
250F 12LBF 7639RPM #11

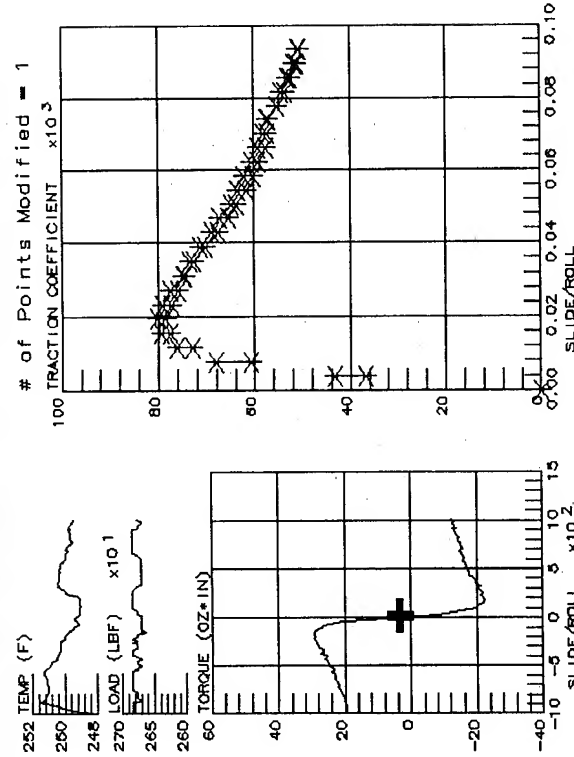
#116

of Points Modified = 1

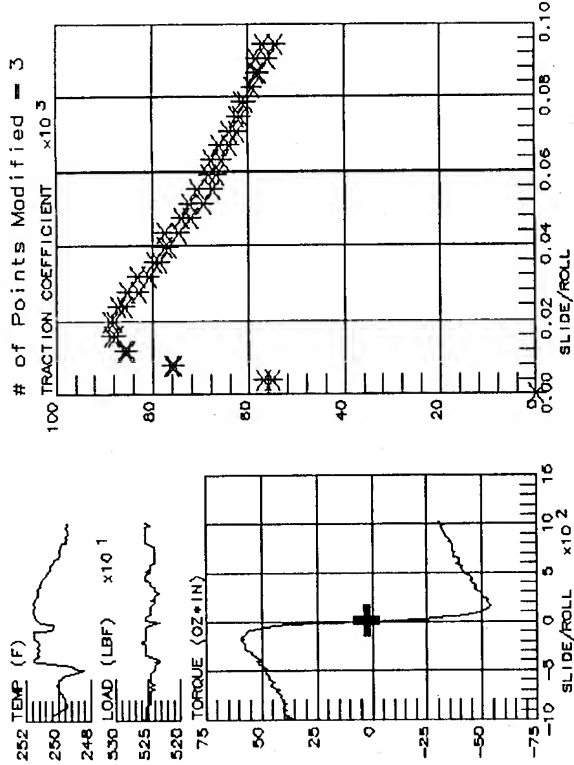


TRACTION DATA

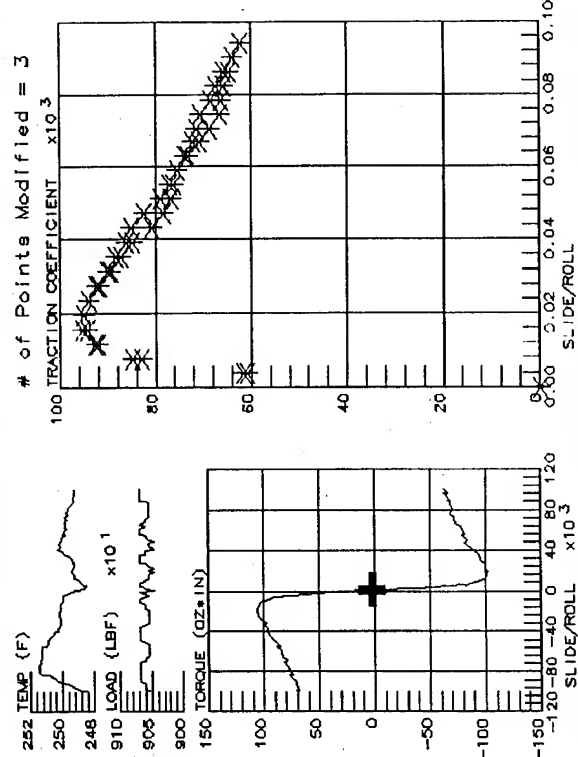
CB 71-6 Krytox 143 ac #117
250F 27LBF 7639RPM #12 FILE: 71-6-05



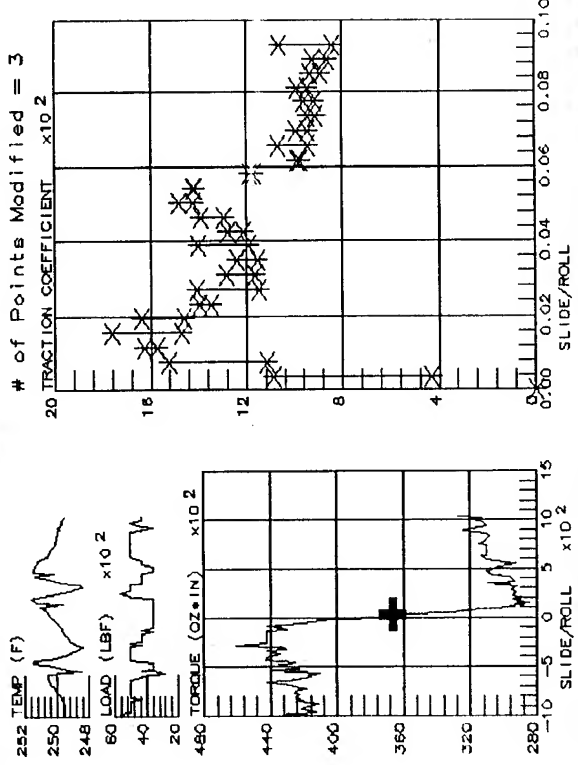
CB 71-6 Krytox 143 ac #118
250F 53LBF 7639RPM #13 FILE: 71-6-06



CB 71-6 Krytox 143 ac #119
250F 91LBF 7639RPM #14 FILE: 71-6-05

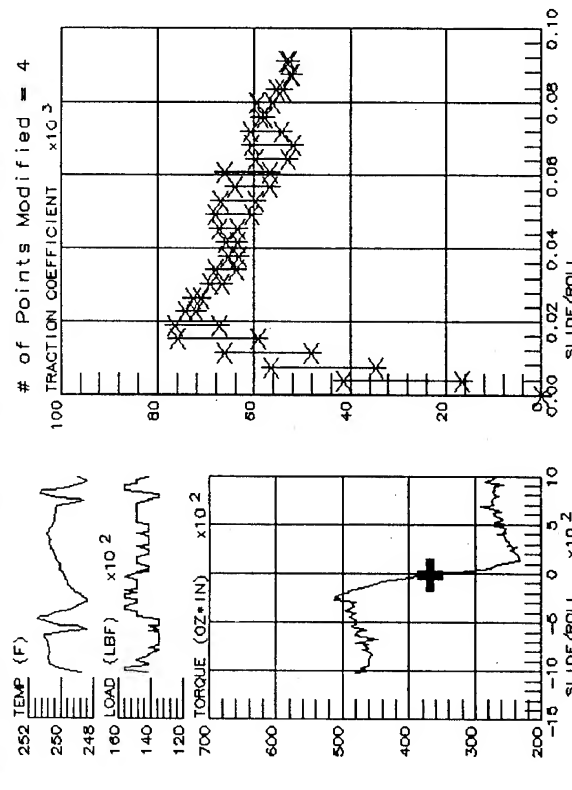


CB 71-6 Krytox 143 ac #120
250F 11LBF 1019RPM #15 FILE: 71-6-05

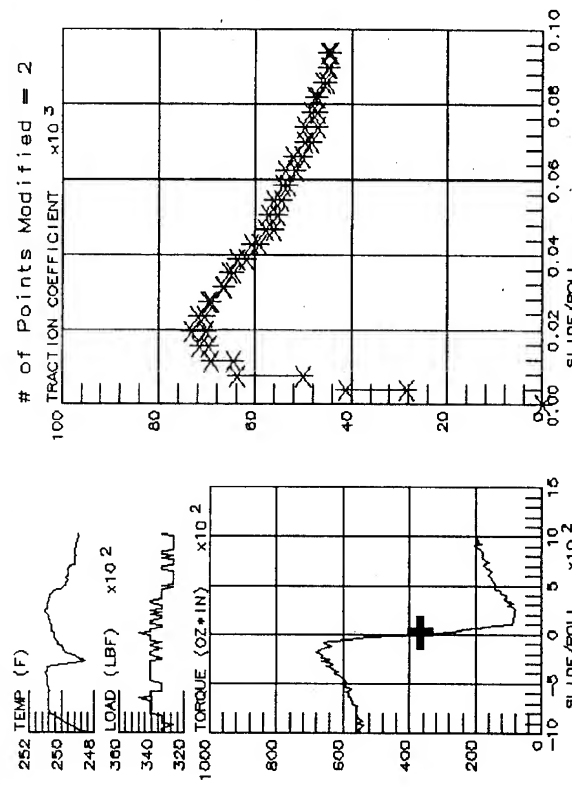


TRACTION DATA

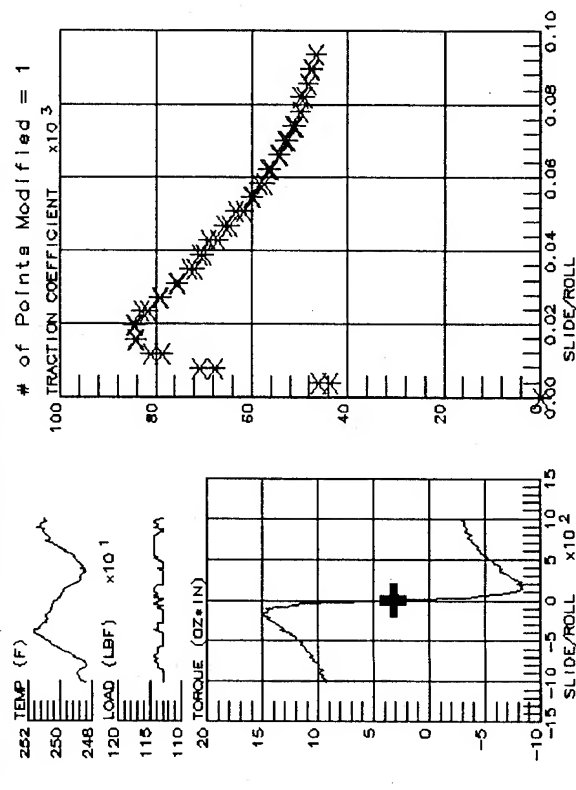
CB 71-6 Krytox 143 ac #121
250F 2LBF 10198RPM #16 FILE: 71-6-05



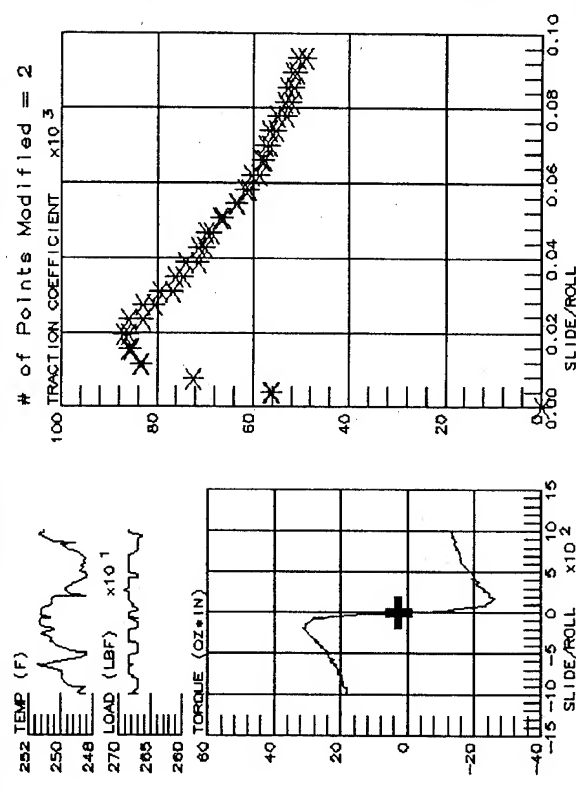
CB 71-6 Krytox 143 ac #122
250F 4LBF 10198RPM #17 FILE: 71-6-05



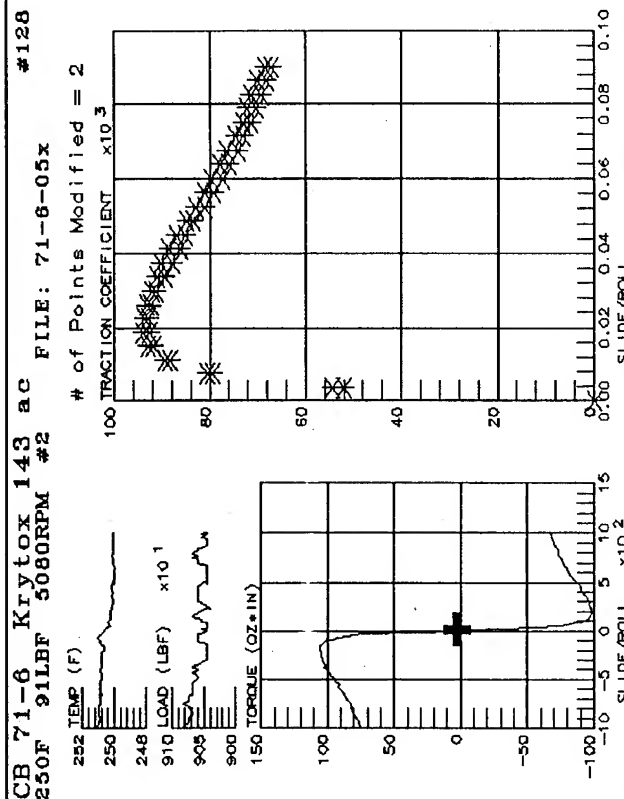
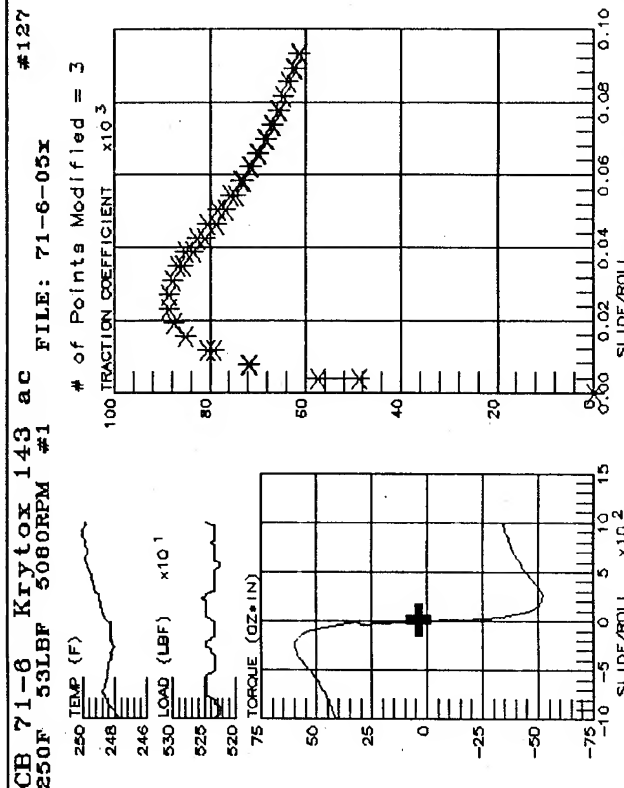
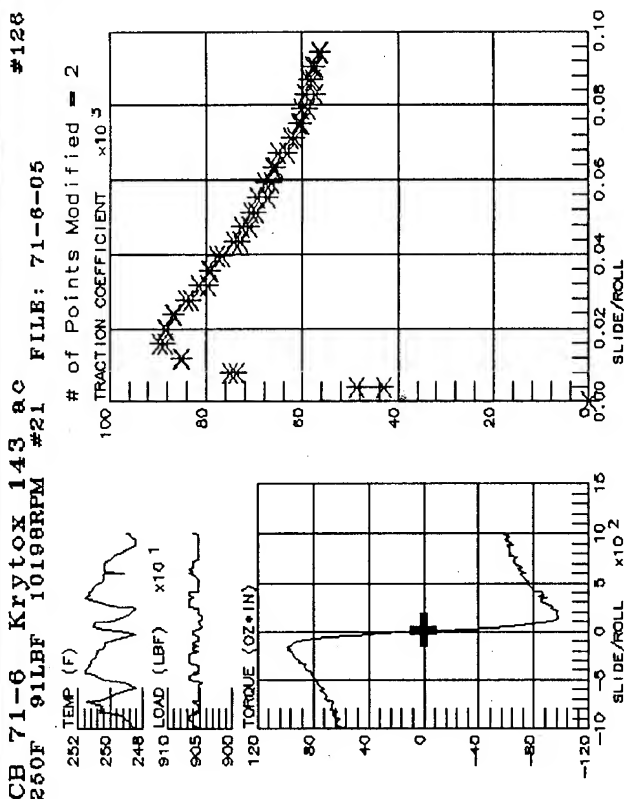
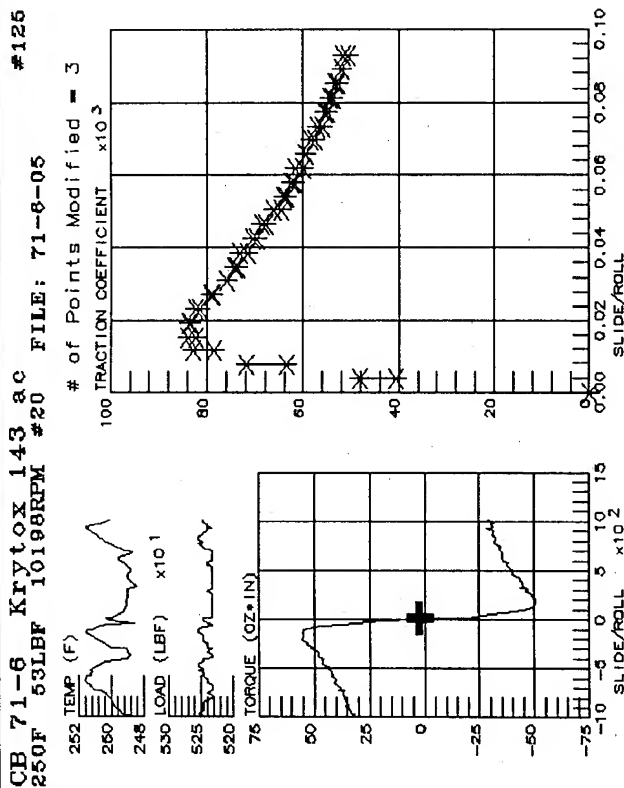
CB 71-6 Krytox 143 ac #123
250F 12LBF 10198RPM #18 FILE: 71-6-05



CB 71-6 Krytox 143 ac #124
250F 27LBF 10198RPM #19 FILE: 71-6-05

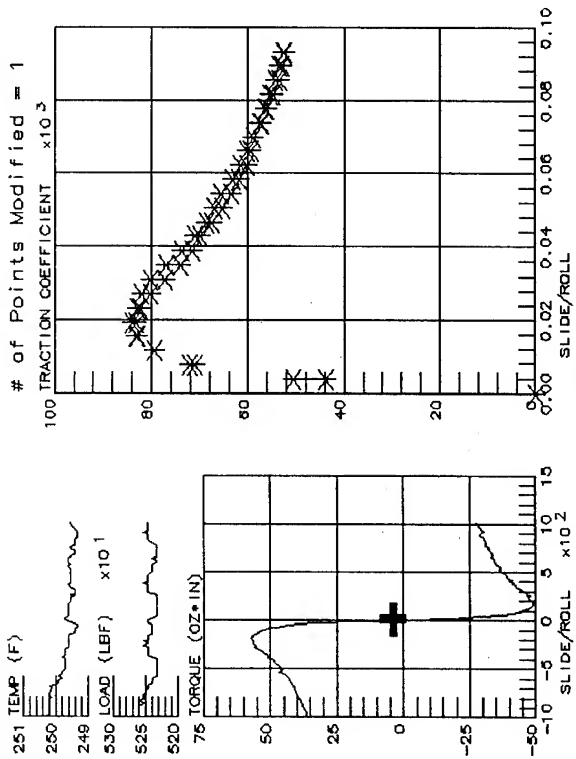


TRACTION DATA

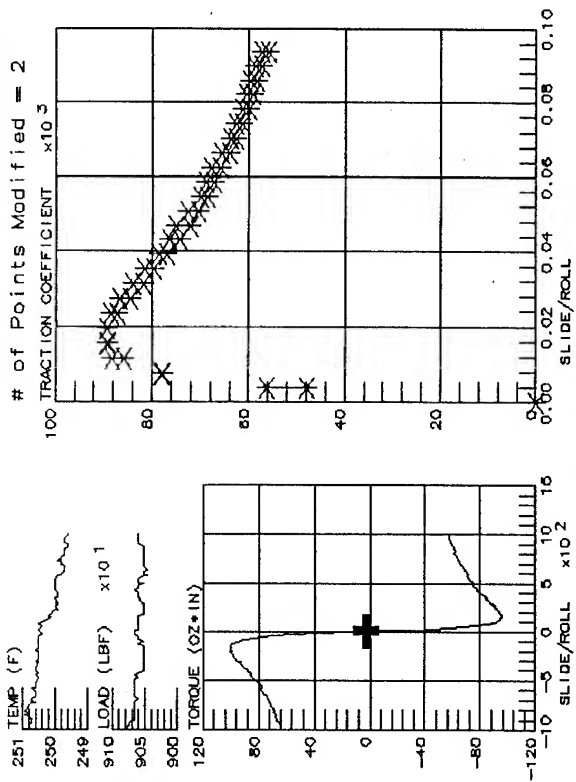


TRACTION DATA

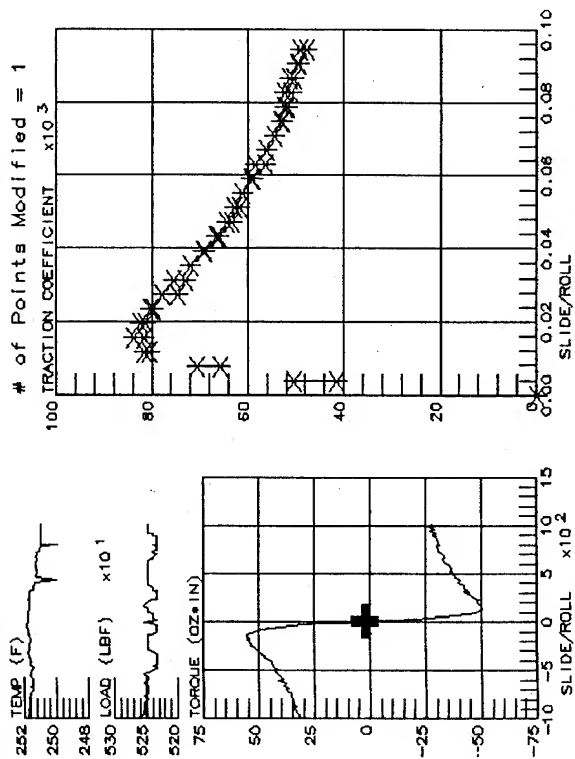
CB 71-6 Krytox 143 ac FILE: 71-6-05x #129
250F 53LBF 7639RPM #3



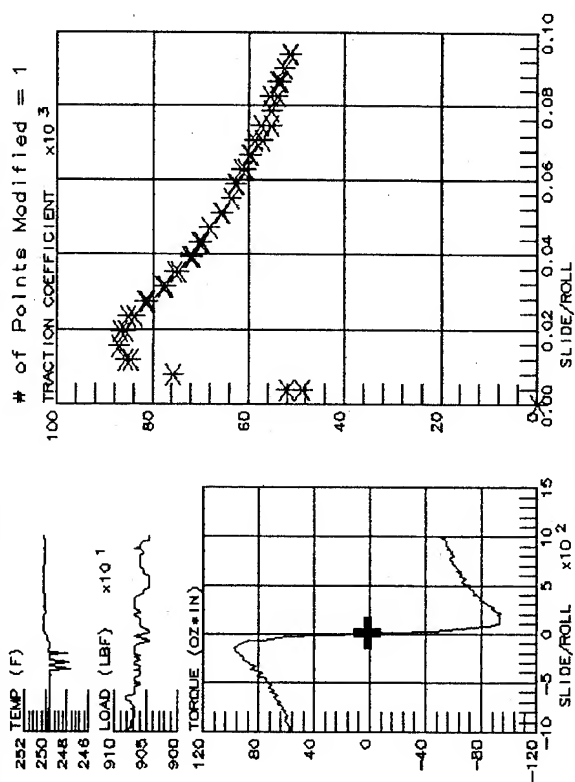
CB 71-6 Krytox 143 ac FILE: 71-6-05x #130
250F 91LBF 7639RPM #4



CB 71-6 Krytox 143 ac FILE: 71-6-05x #131
250F 53LBF 1019RPM #5



CB 71-6 Krytox 143 ac FILE: 71-6-05x #132
250F 91LBF 1019RPM #6

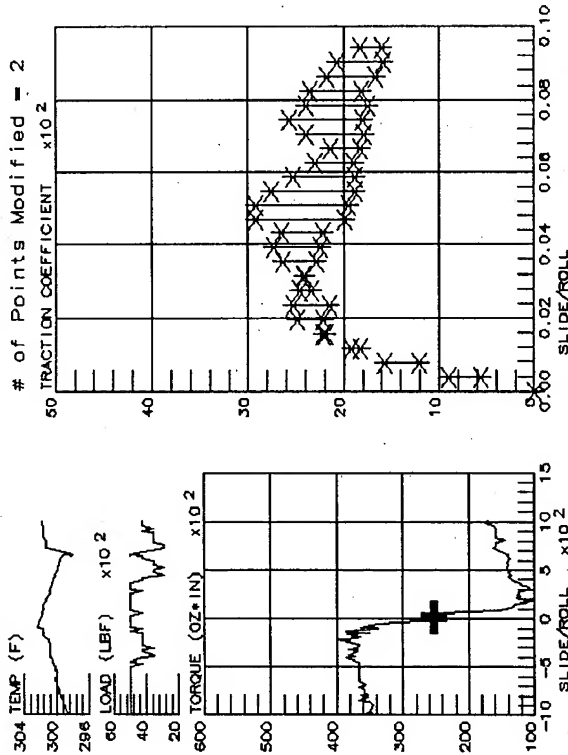


TRACTION DATA

CB 71-6 Krytox 143 ac FILE: 71-6-06
300F 1LBF 5080RPM #1

#133

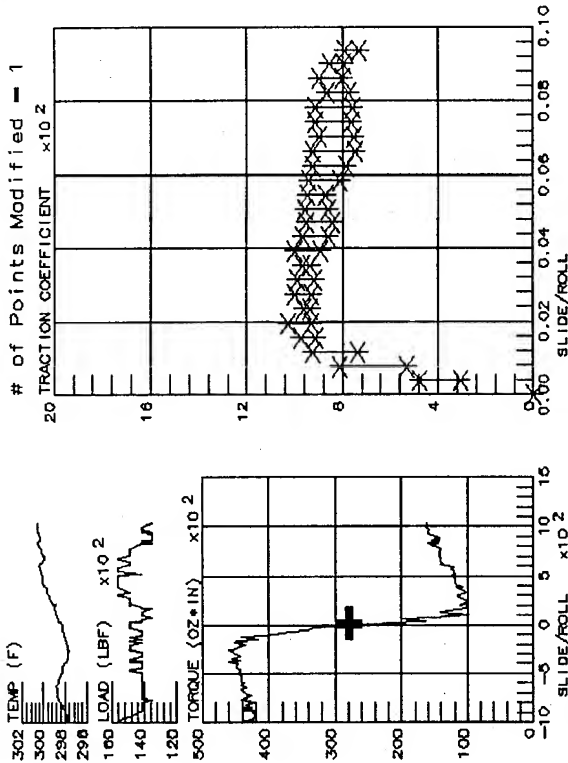
of Points Modified = 2



CB 71-6 Krytox 143 ac FILE: 71-6-06
300F 2LBF 5080RPM #2

#134

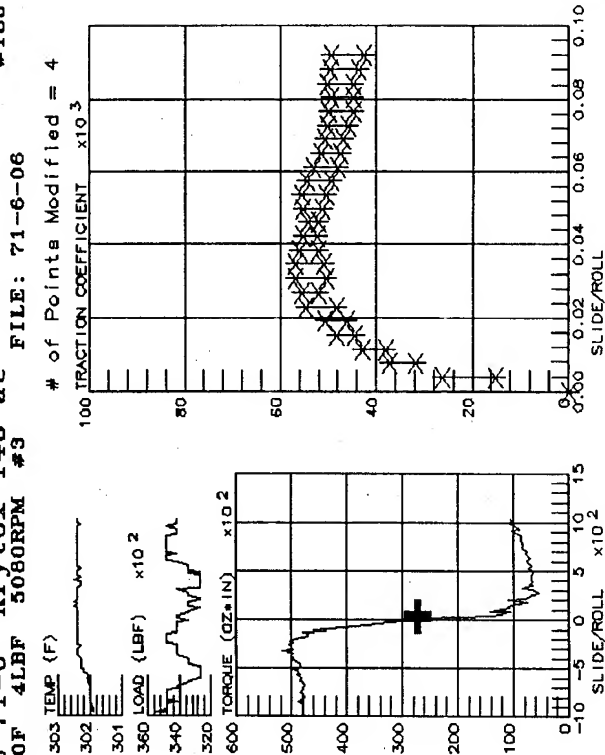
of Points Modified = 1



CB 71-6 Krytox 143 ac FILE: 71-6-06
300F 4LBF 5080RPM #3

#135

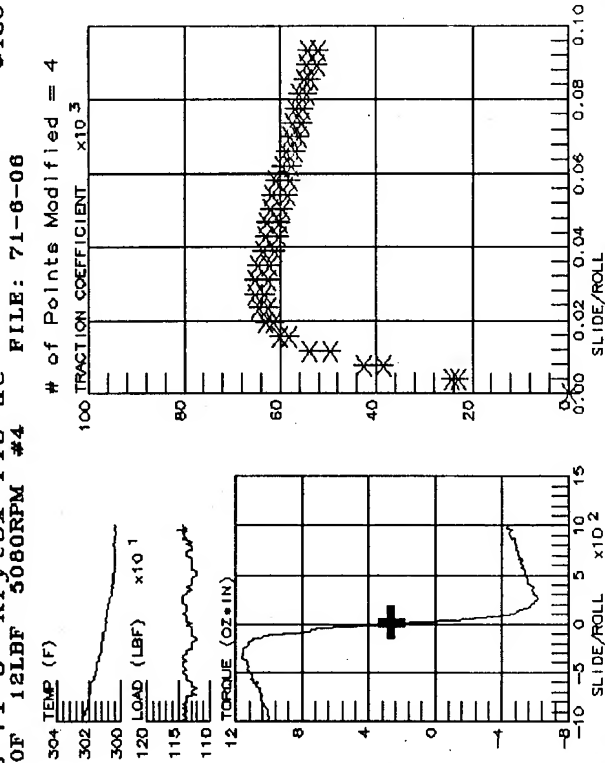
of Points Modified = 4



CB 71-6 Krytox 143 ac FILE: 71-6-06
300F 12LBF 5080RPM #4

#136

of Points Modified = 4



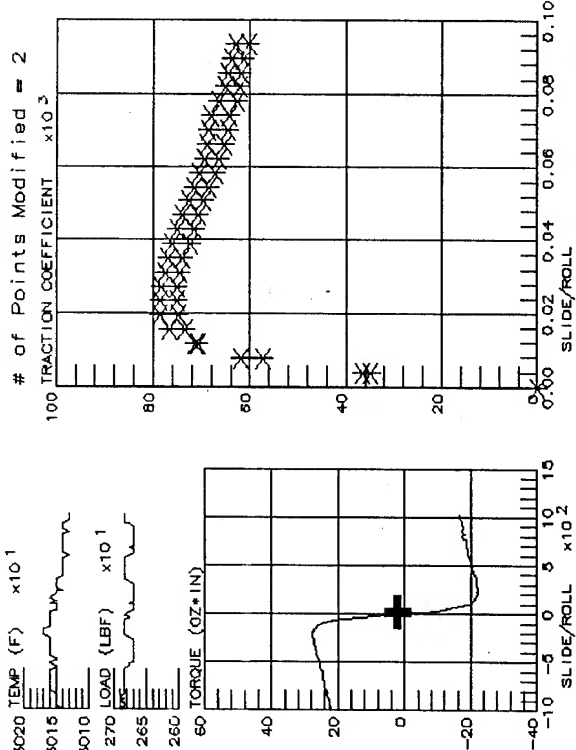
TRACTION DATA

CB 71-6 Krytox 143 ac
300F 27LBF 5080RPM #5

#137

FILE: 71-6-06

of Points Modified = 2

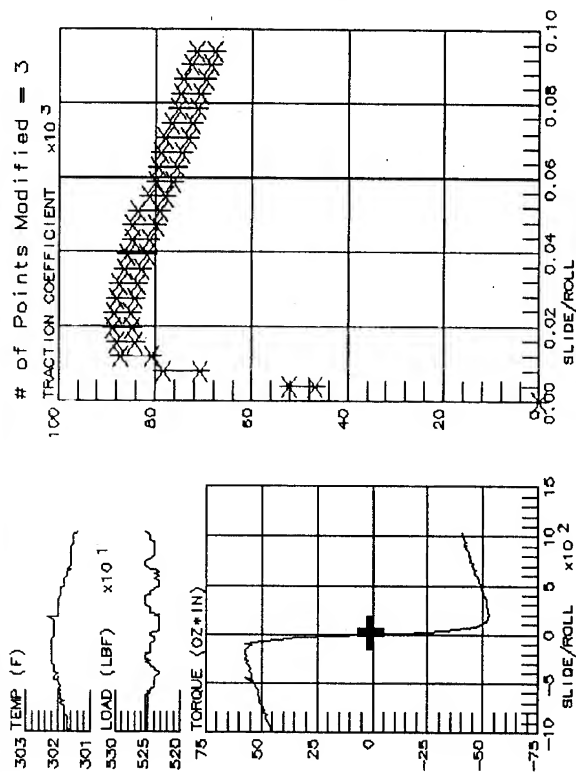


CB 71-6 Krytox 143 ac
300F 53LBF 5080RPM #6

#138

FILE: 71-6-06

of Points Modified = 3

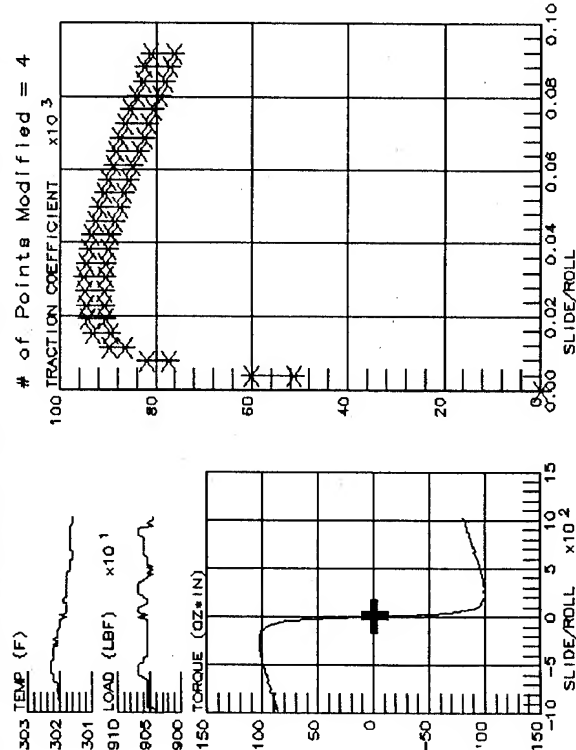


CB 71-6 Krytox 143 ac
300F 91LBF 5080RPM #7

#139

FILE: 71-6-06

of Points Modified = 4

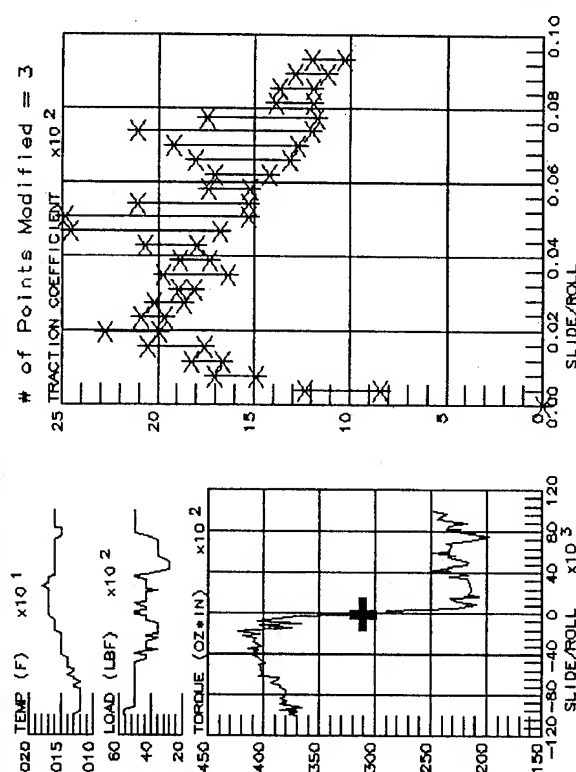


CB 71-6 Krytox 143 ac
300F 11LBF 7639RPM #8

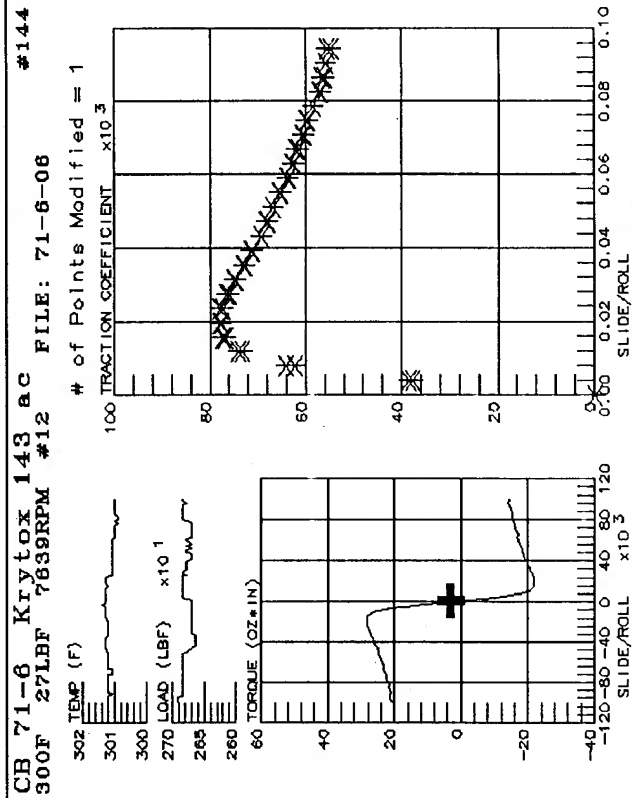
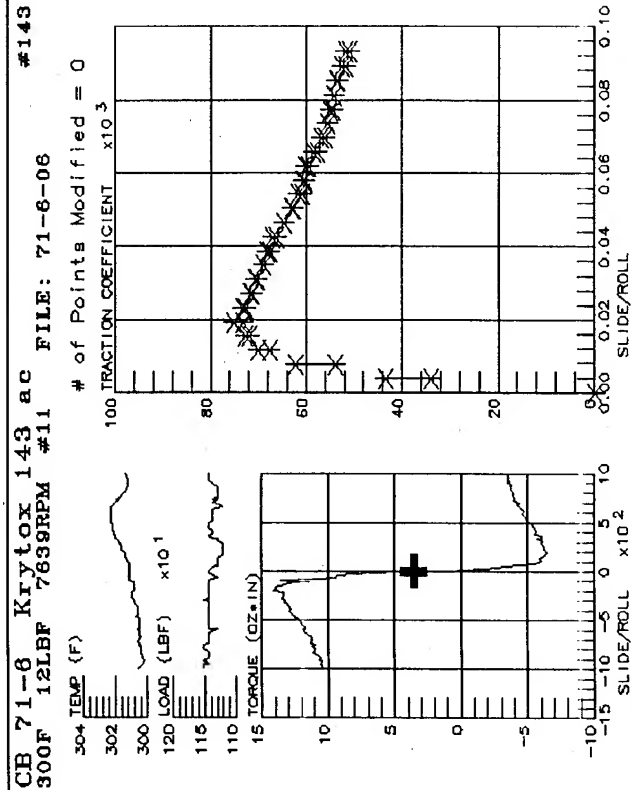
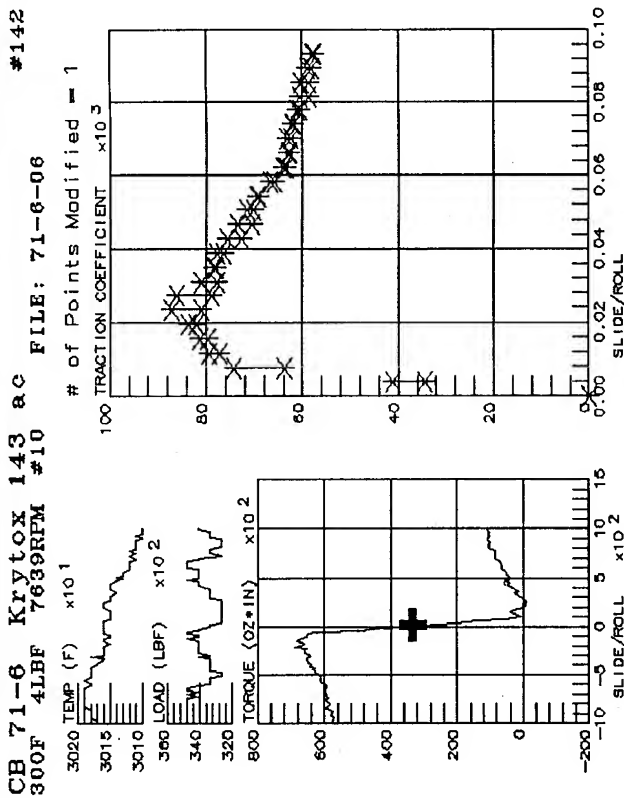
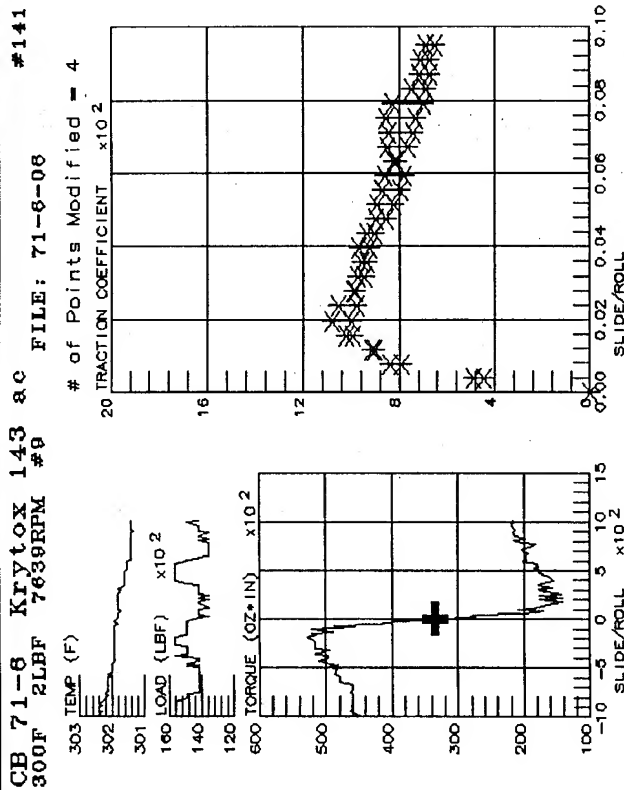
#140

FILE: 71-6-06

of Points Modified = 3



TRACTION DATA



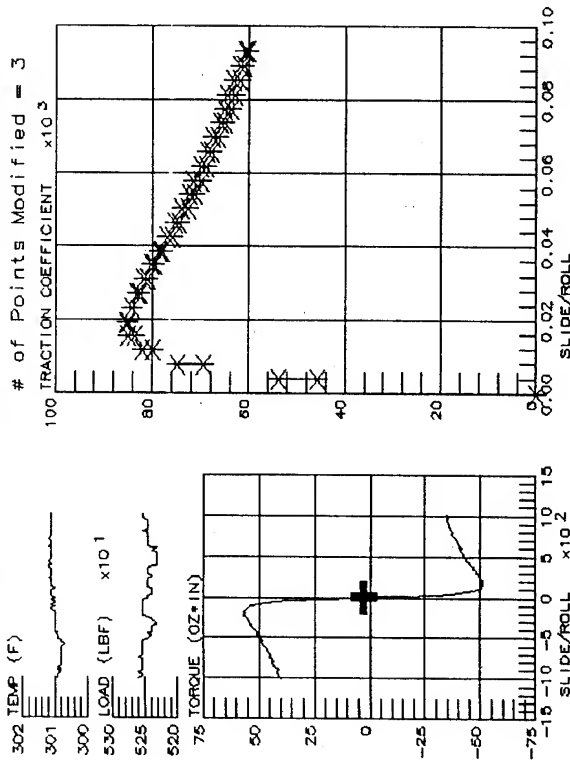
TRACTION DATA

CB 71-6 Krytox 143 ac
300F 53LBF 7639RPM #13

#145

FILE: 71-6-06

of Points Modified = 3

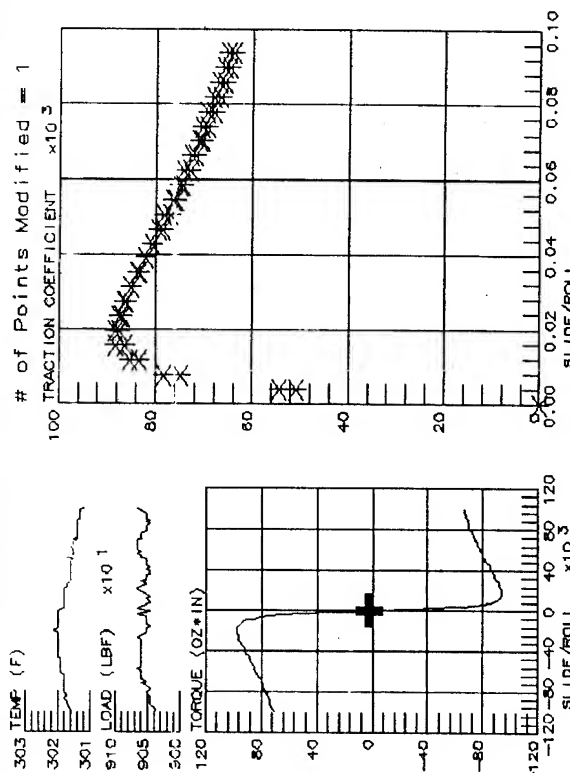


CB 71-6 Krytox 143 ac
300F 91LBF 7639RPM #14

#148

FILE: 71-6-06

of Points Modified = 1

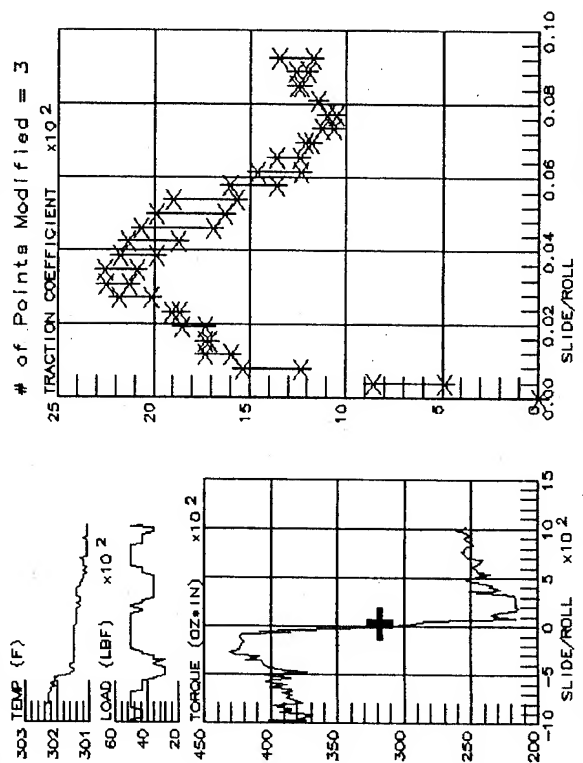


CB 71-6 Krytox 143 ac
300F 1LBF 10198RPM #15

#147

FILE: 71-6-06

of Points Modified = 3

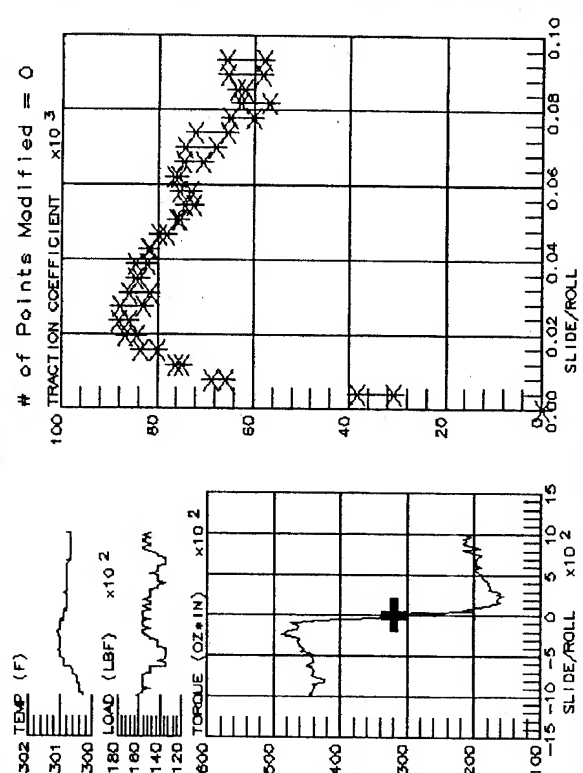


CB 71-6 Krytox 143 ac
300F 2LBF 10198RPM #16

#148

FILE: 71-6-06

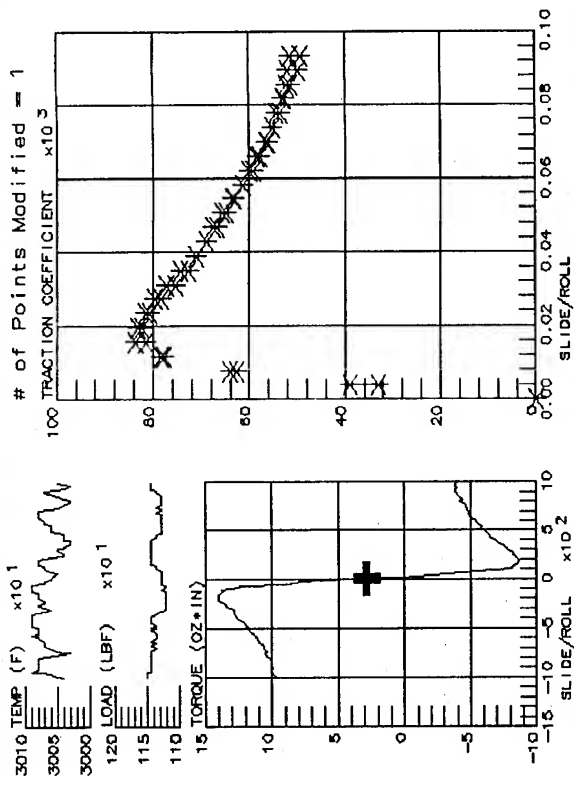
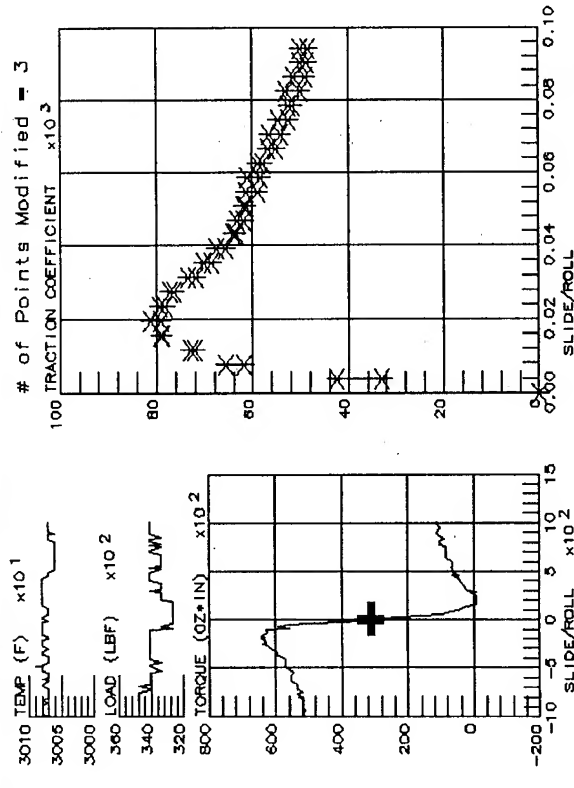
of Points Modified = 0



TRACTION DATA

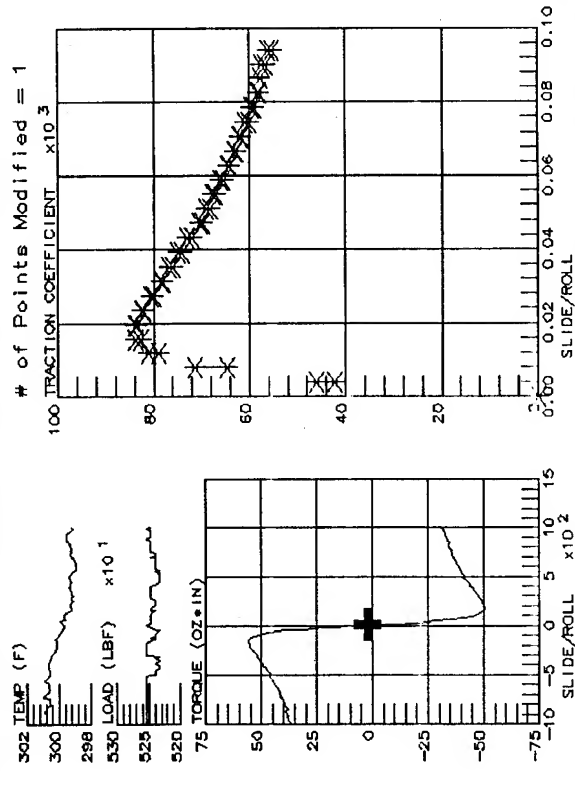
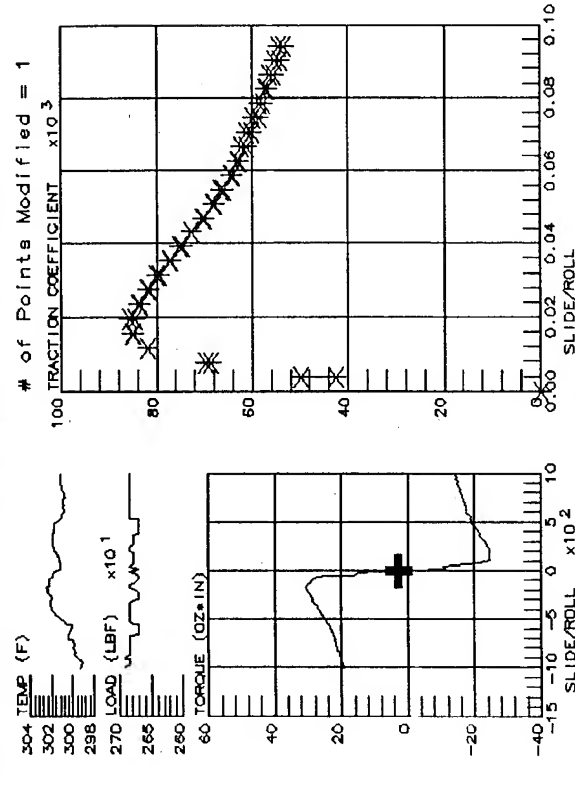
CB 71-6 Krytox 143 ac
300F 4LBF 1019RPM #17 FILE: 71-6-06

#149
CB 71-6 Krytox 143 ac
300F 12LBF 1019RPM #18 FILE: 71-6-06

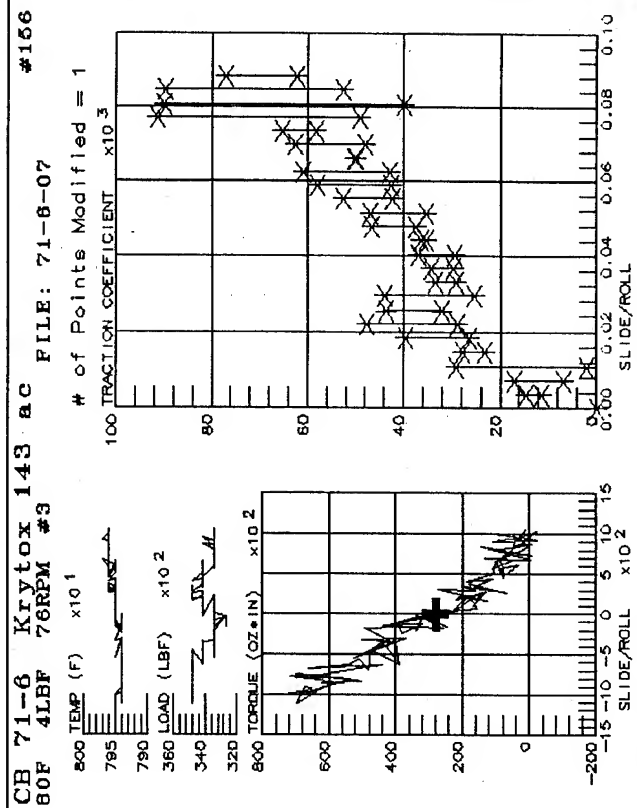
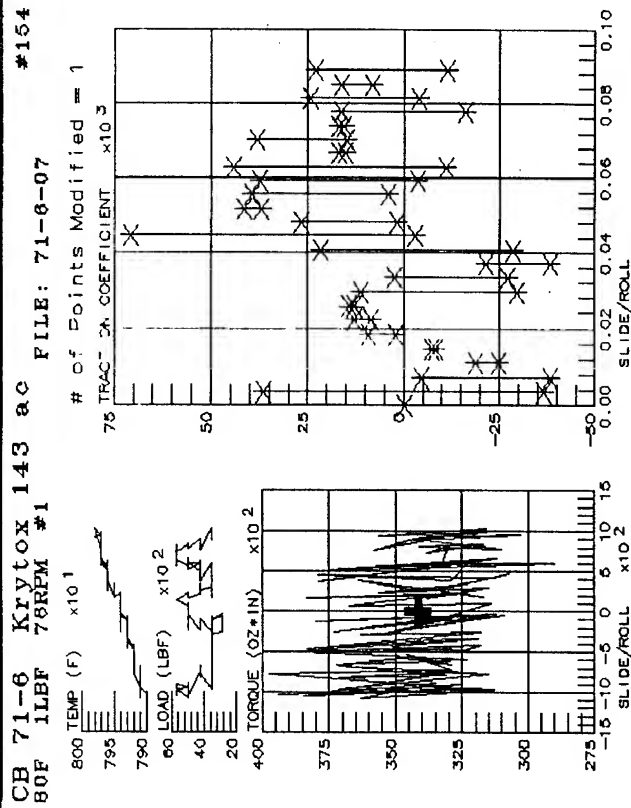
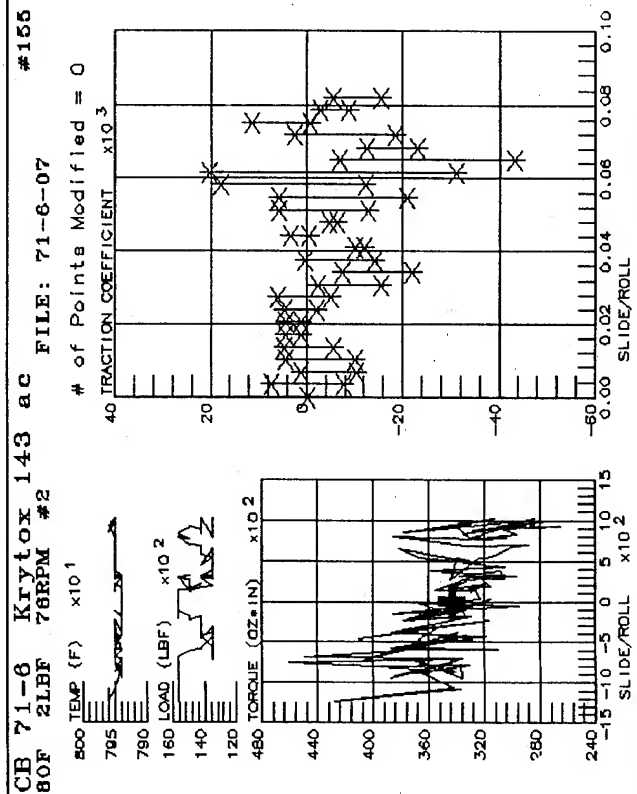
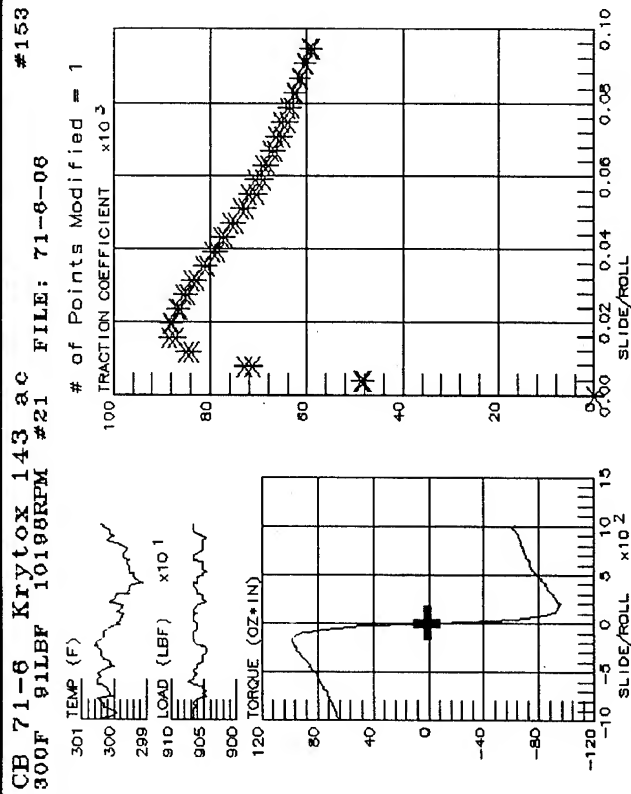


CB 71-6 Krytox 143 ac
300F 27LBF 1019RPM #19 FILE: 71-6-06

#152
CB 71-6 Krytox 143 ac
300F 53LBF 1019RPM #20 FILE: 71-6-06



TRACTION DATA

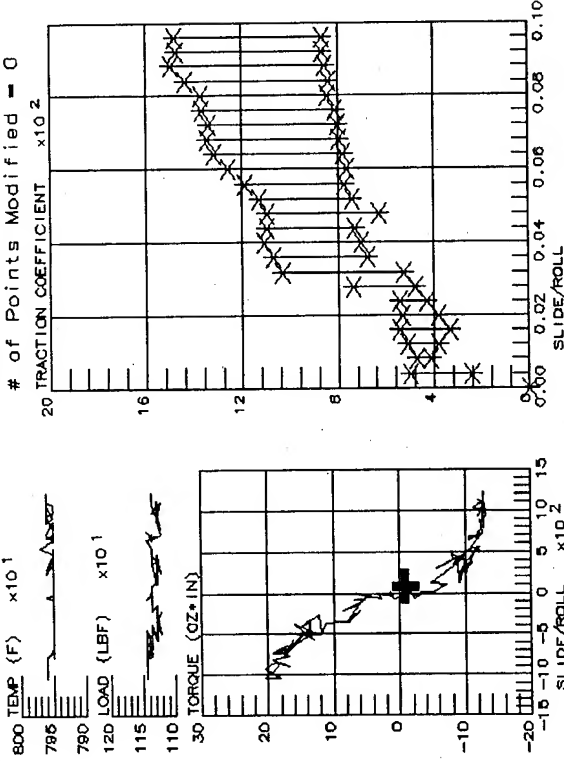


TRACTION DATA

CB 71-6 Krytox 143 ac
80F 12LBF 76RPM #4

#157

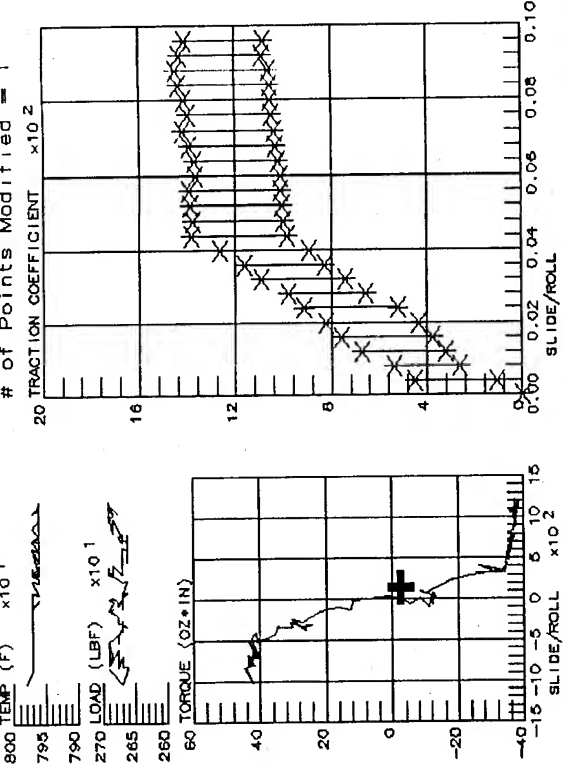
FILE: 71-6-07
of Points Modified = 0



CB 71-6 Krytox 143 ac
80F 27LBF 76RPM #5

#158

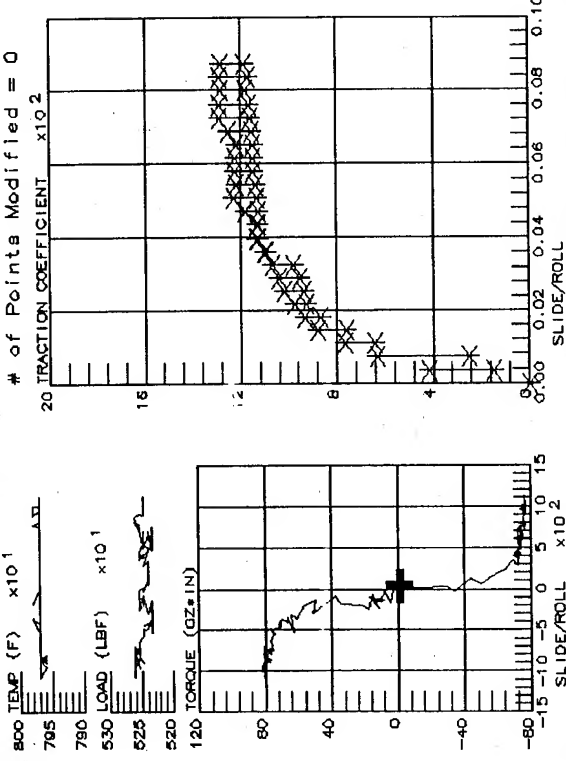
FILE: 71-6-07
of Points Modified = 1



CB 71-6 Krytox 143 ac
80F 53LBF 76RPM #8

#159

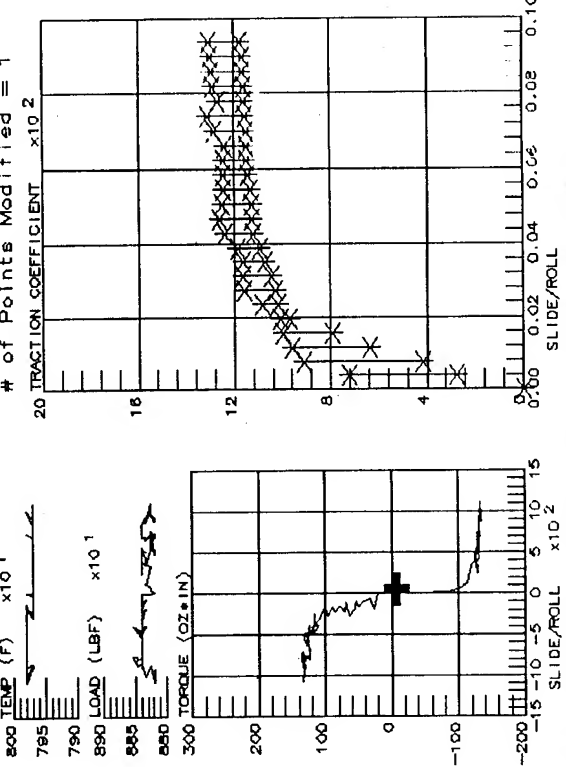
FILE: 71-6-07
of Points Modified = 0



CB 71-6 Krytox 143 ac
80F 89LBF 76RPM #7

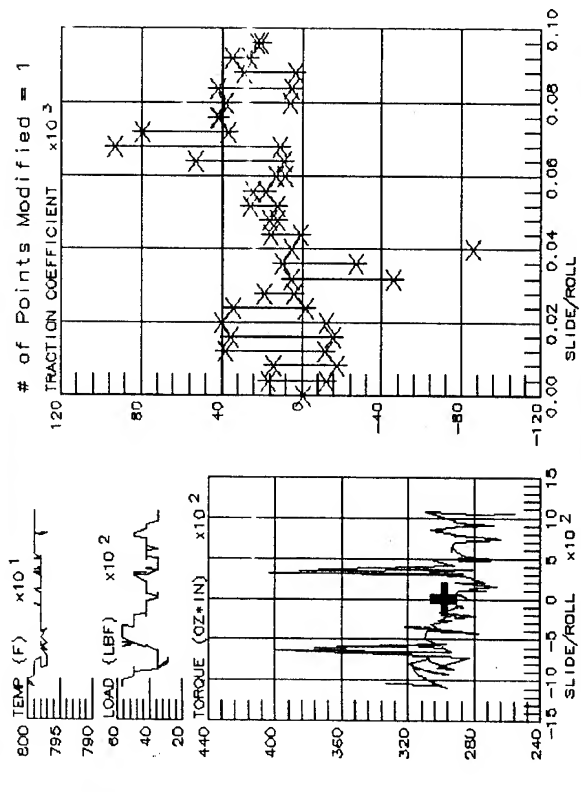
#160

FILE: 71-6-07
of Points Modified = 1

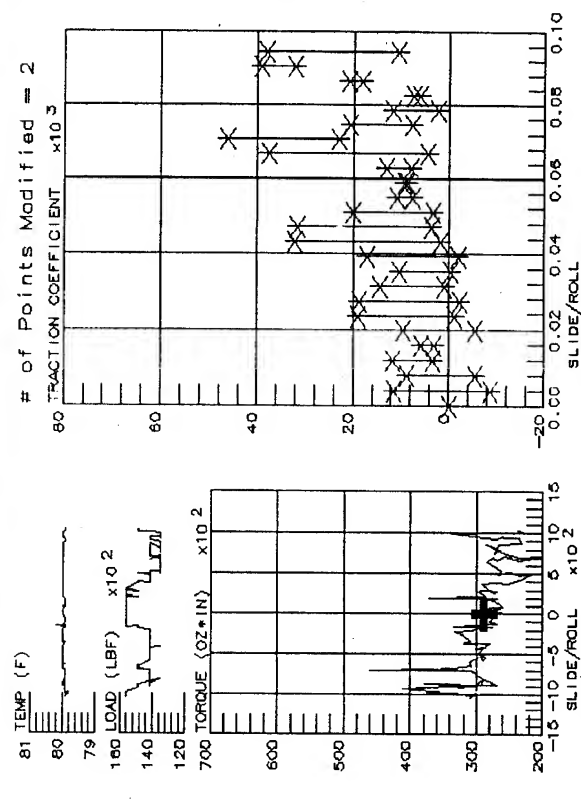


TRACTION DATA

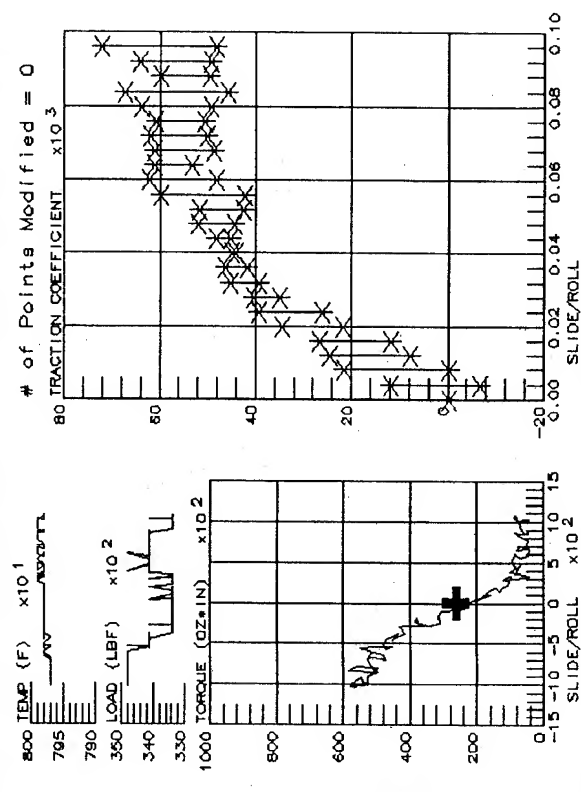
CB 71-6 Krytox 143 ac FILE: 71-6-07 #181
80F 1LBF 152RPM #8



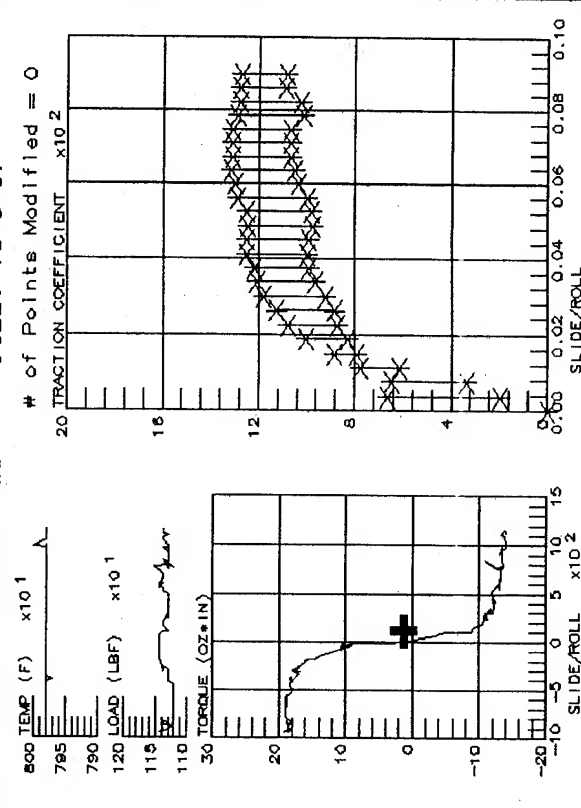
CB 71-6 Krytox 143 ac FILE: 71-6-07 #162
80F 2LBF 152RPM #9



CB 71-6 Krytox 143 ac FILE: 71-6-07 #163
80F 4LBF 152RPM #10

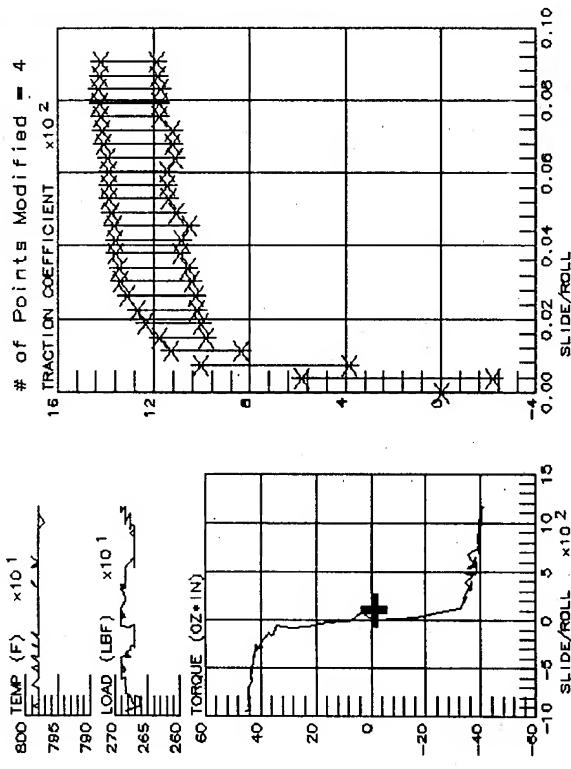


CB 71-6 Krytox 143 ac FILE: 71-6-07 #164
80F 12LBF 152RPM #11

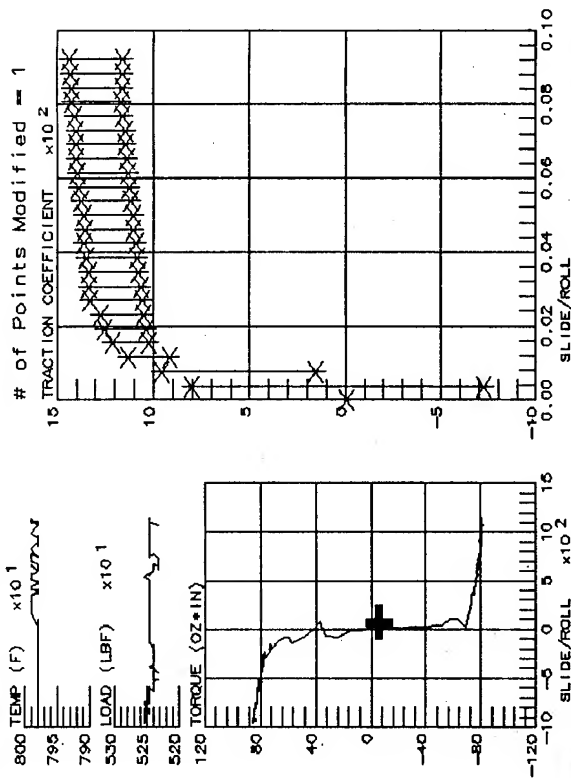


TRACTION DATA

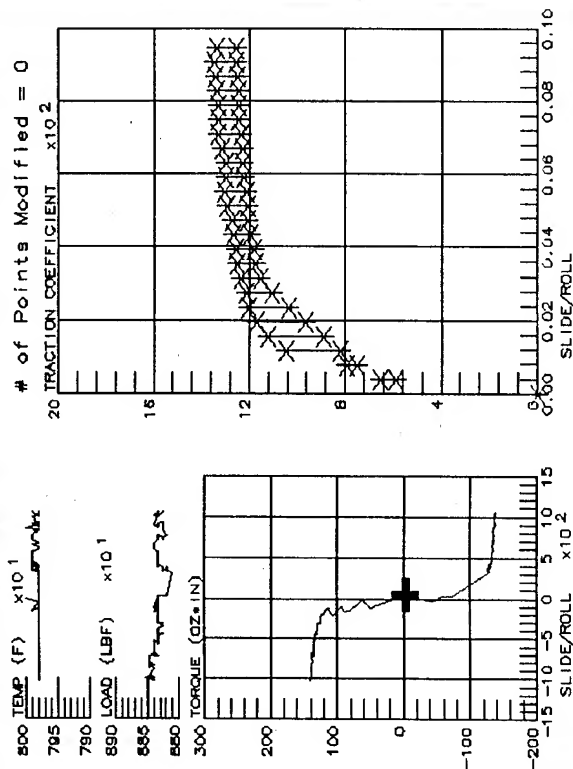
CB 71-6 Krytox 143 ac FILE: 71-6-07 #165
 BOF 27LBF 152RPM #12



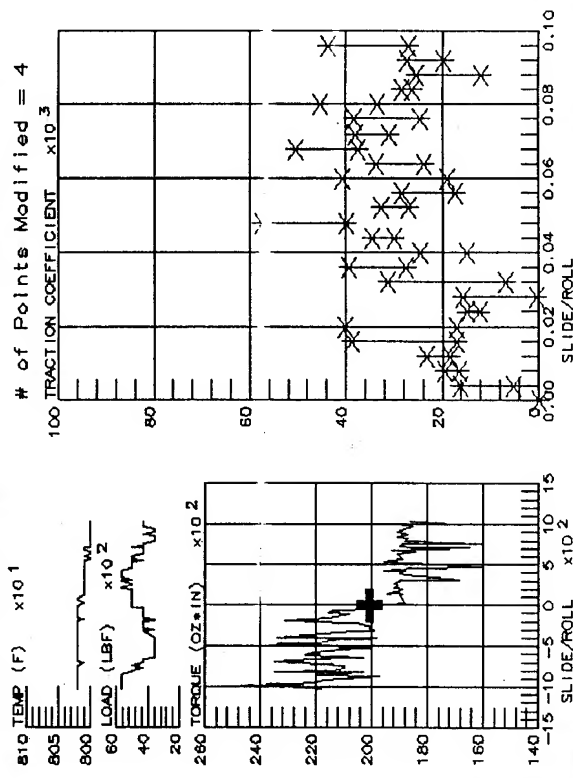
CB 71-6 Krytox 143 ac FILE: 71-6-07 #168
 BOF 53LBF 152RPM #13



CB 71-6 Krytox 143 ac FILE: 71-6-07 #167
 BOF 89LBF 152RPM #14



CB 71-6 Krytox 143 ac FILE: 71-6-07 #169
 BOF 11LBF 342RPM #15



TRACTION DATA

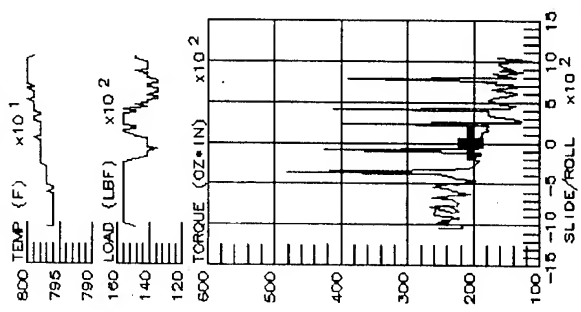
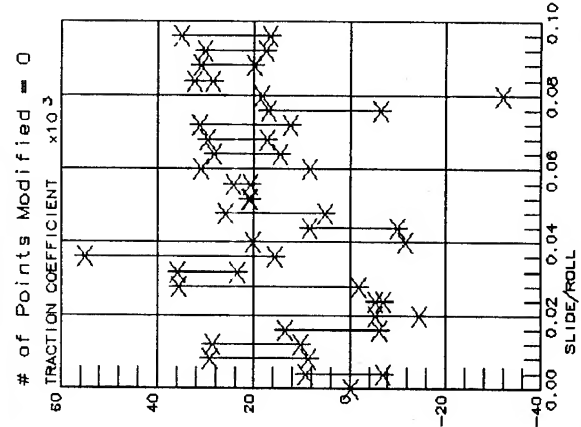
CB 71-6 Krytox 143 ac
80F 2LBF 342RPM #16

#189

FILE: 71-6-07

of Points Modified = 0

TRACTION COEFFICIENT $\times 10^3$



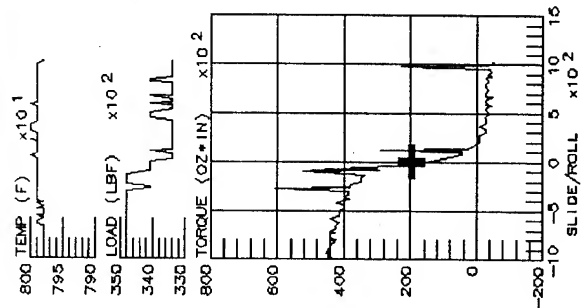
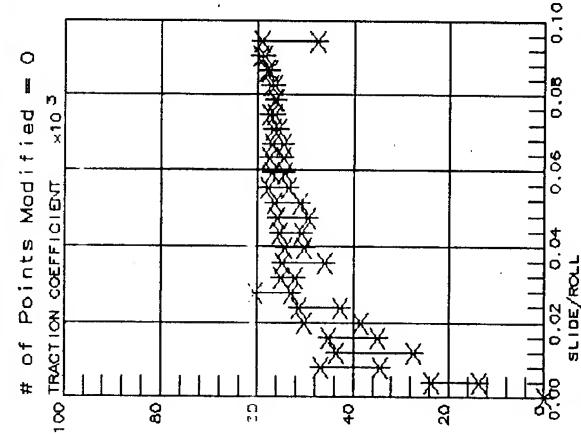
CB 71-6 Krytox 143 ac
80F 4LBF 342RPM #17

#170

FILE: 71-6-07

of Points Modified = 0

TRACTION COEFFICIENT $\times 10^3$



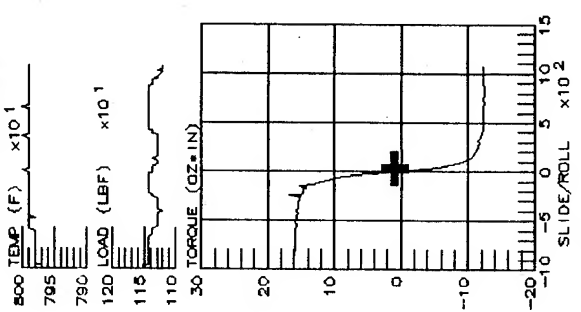
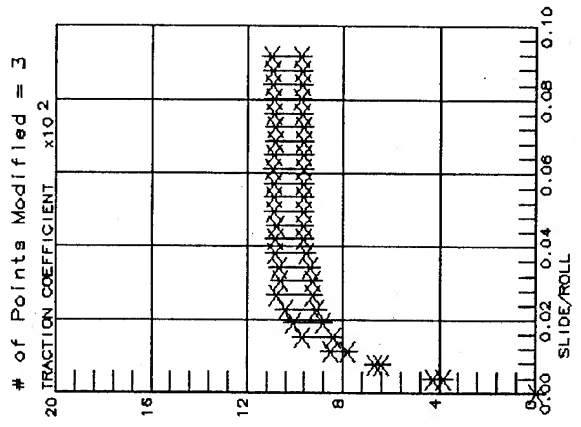
CB 71-6 Krytox 143 ac
80F 12LBF 342RPM #18

#171

FILE: 71-6-07

of Points Modified = 3

TRACTION COEFFICIENT $\times 10^2$



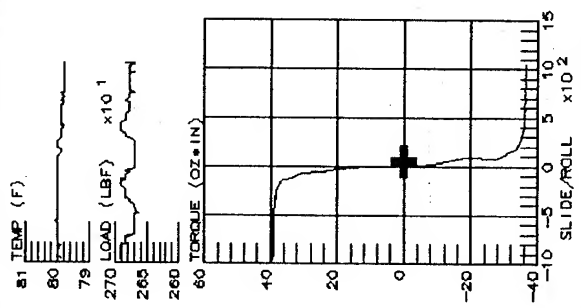
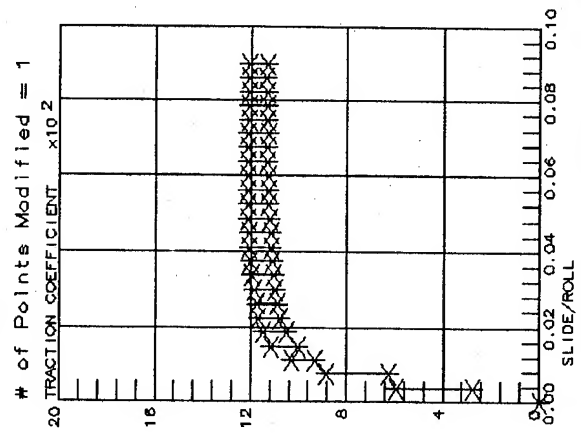
CB 71-6 Krytox 143 ac
80F 27LBF 342RPM #19

#172

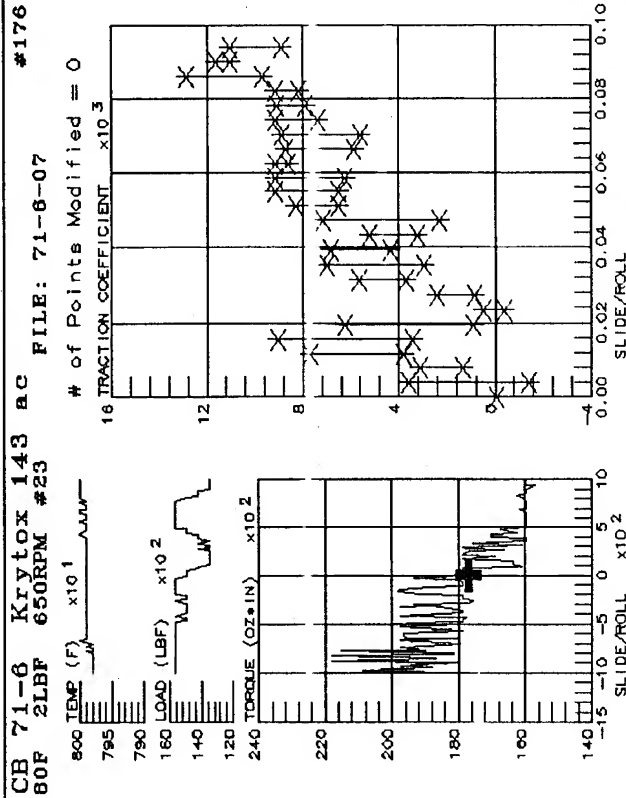
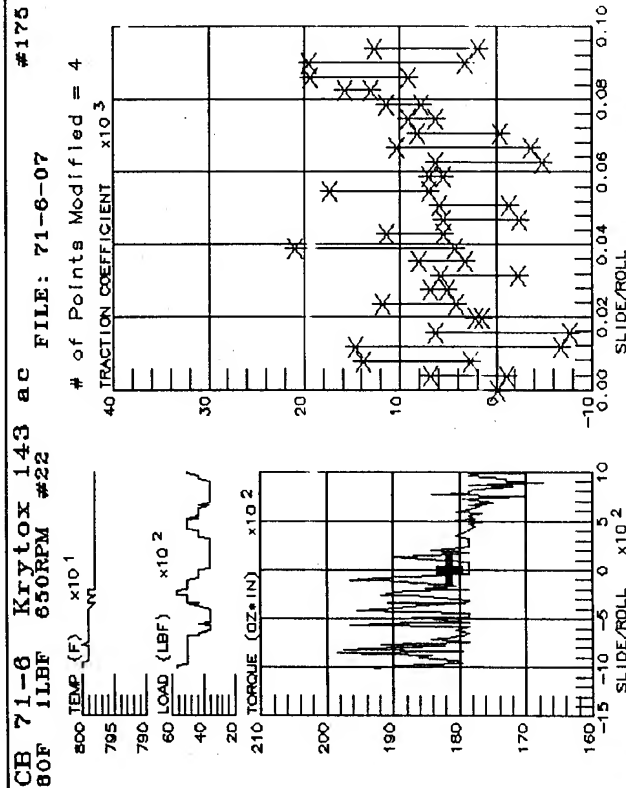
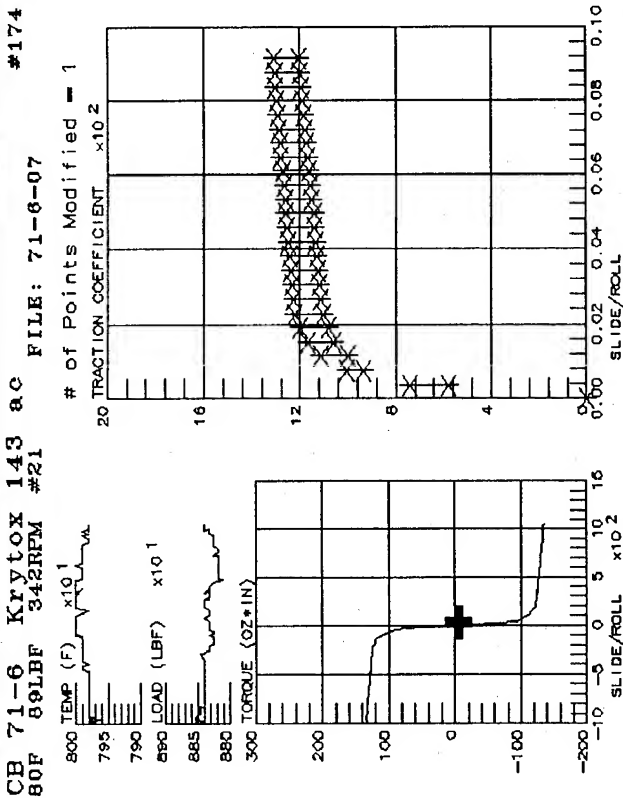
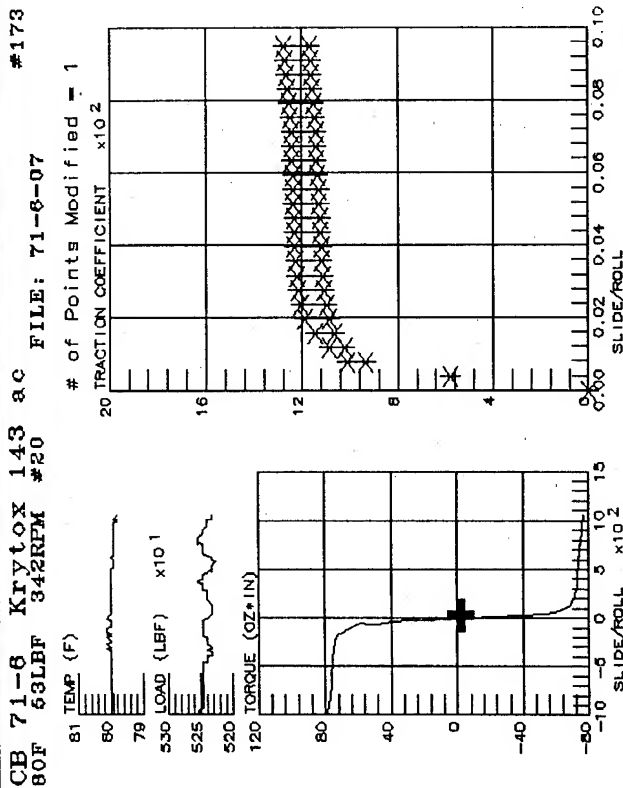
FILE: 71-6-07

of Points Modified = 1

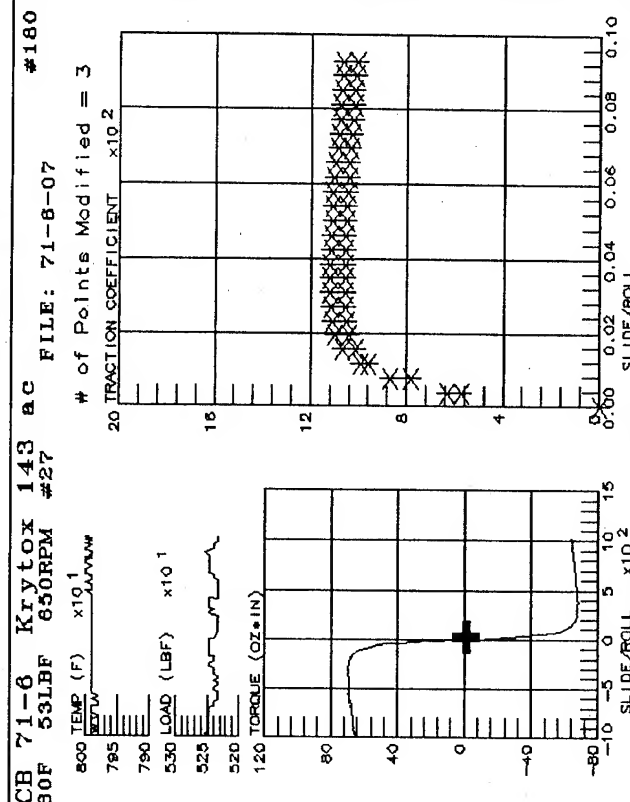
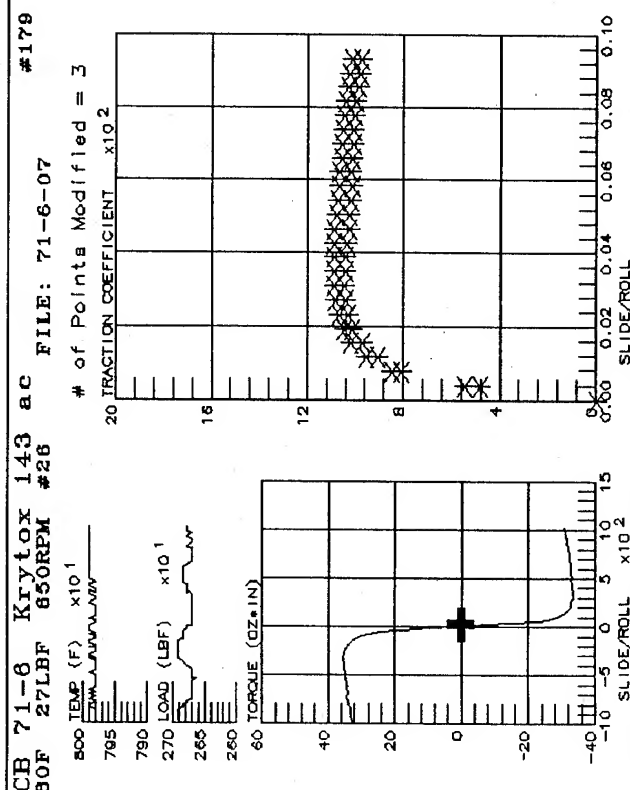
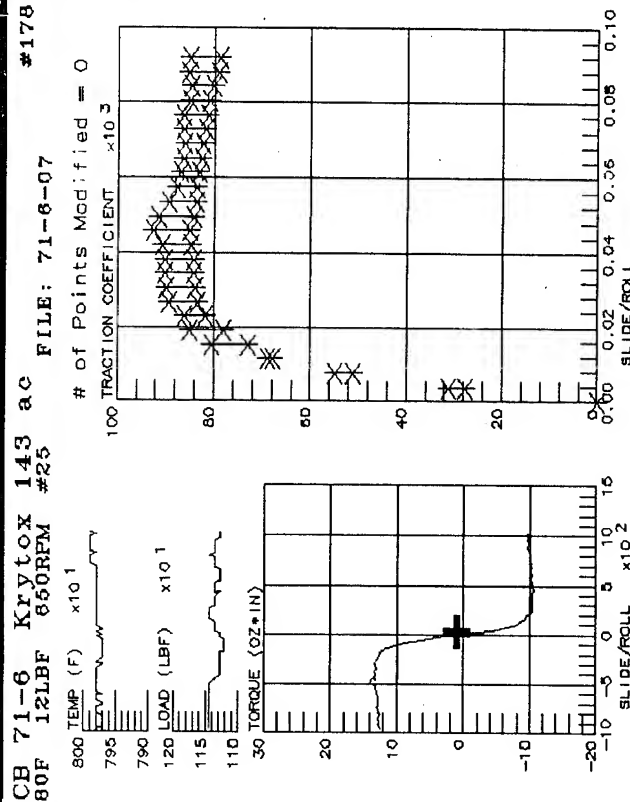
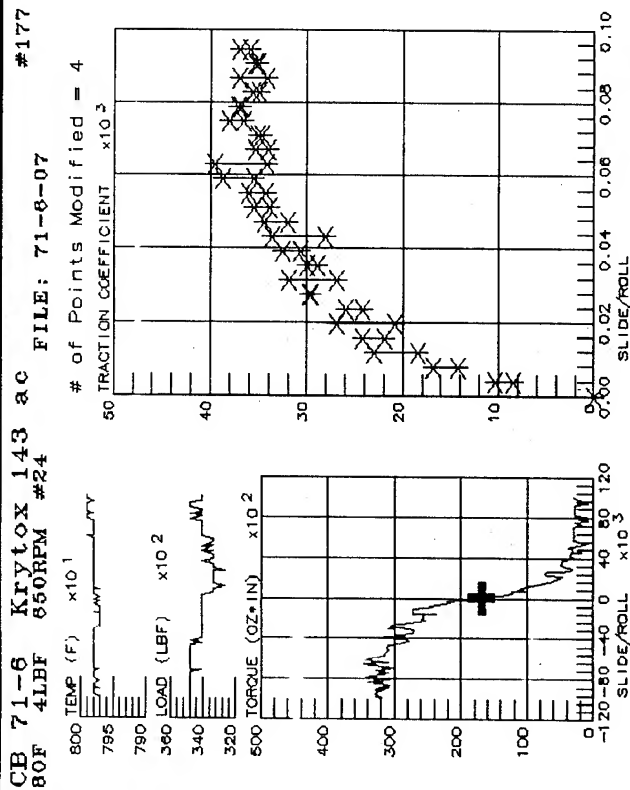
TRACTION COEFFICIENT $\times 10^2$



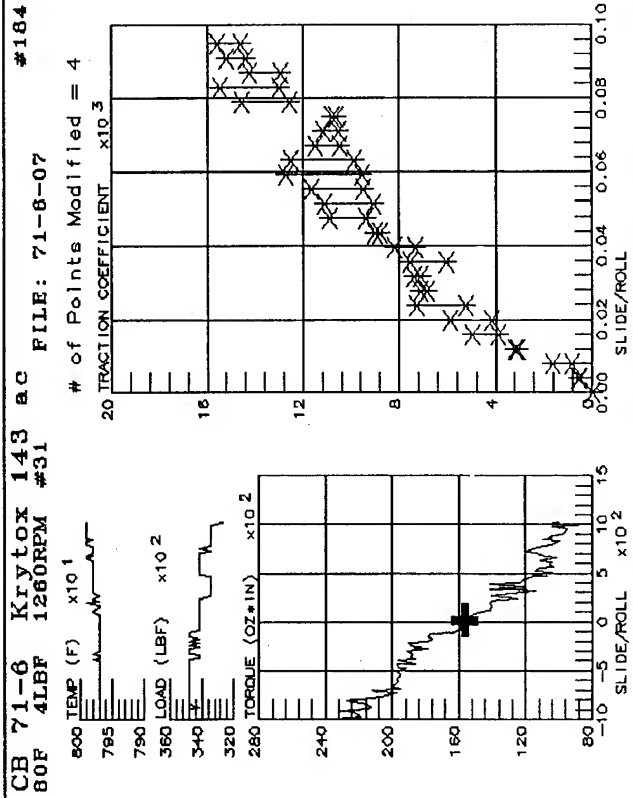
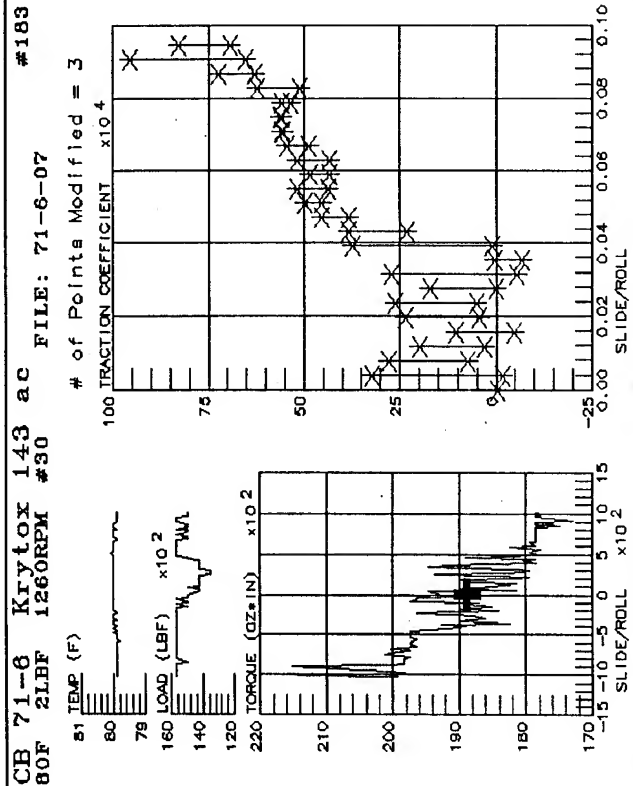
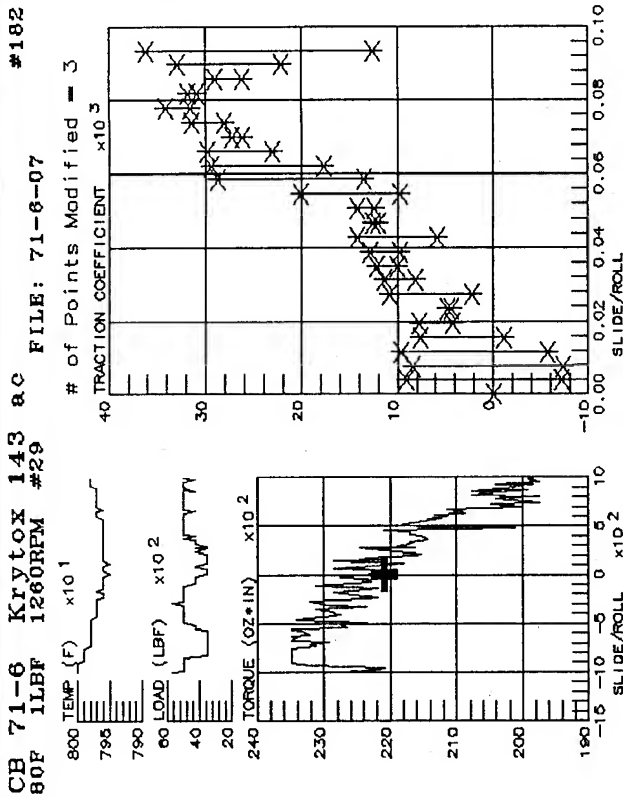
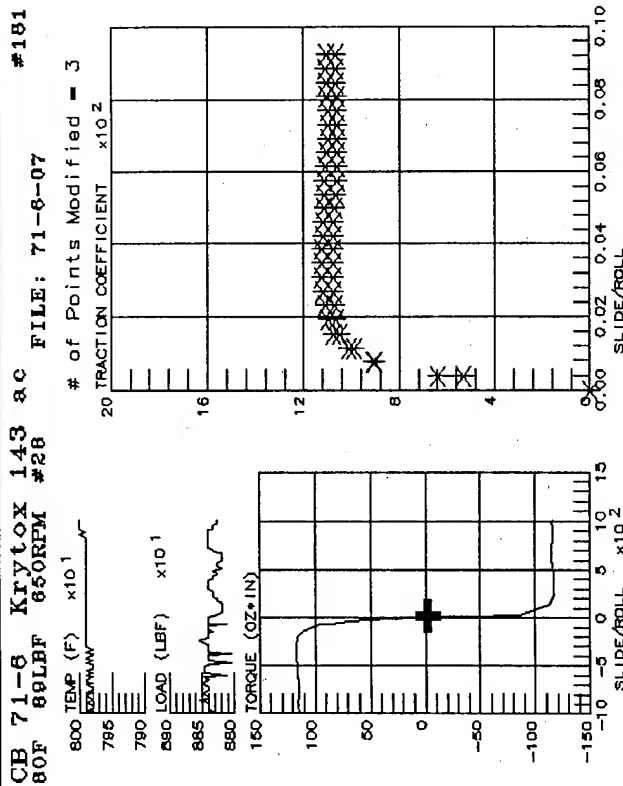
TRACTION DATA



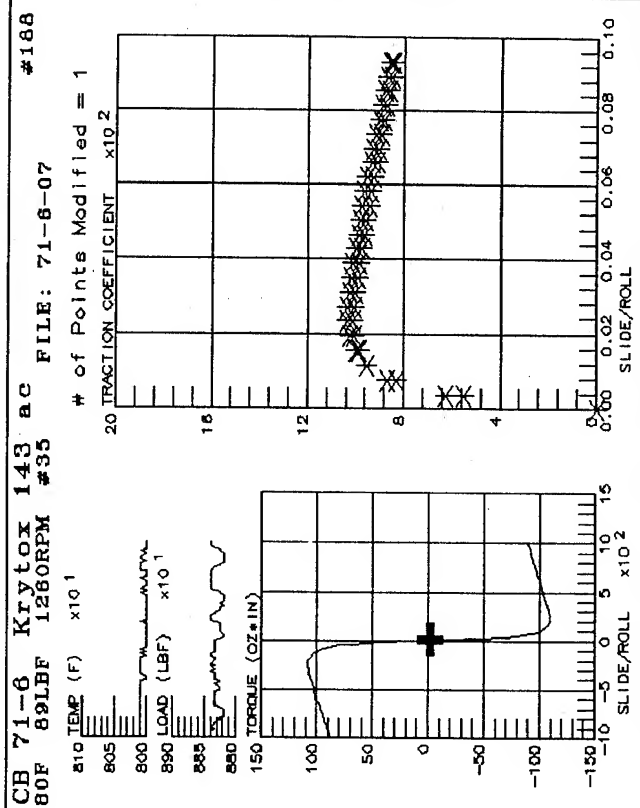
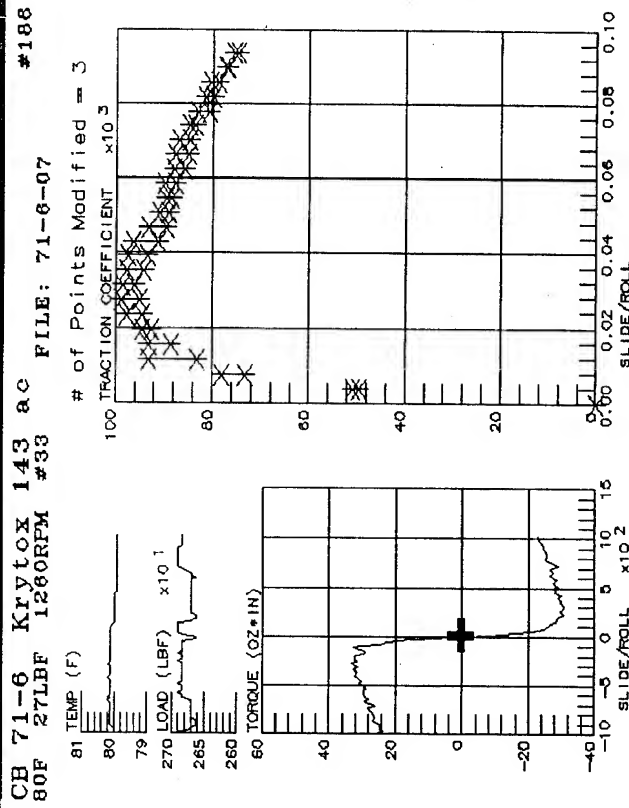
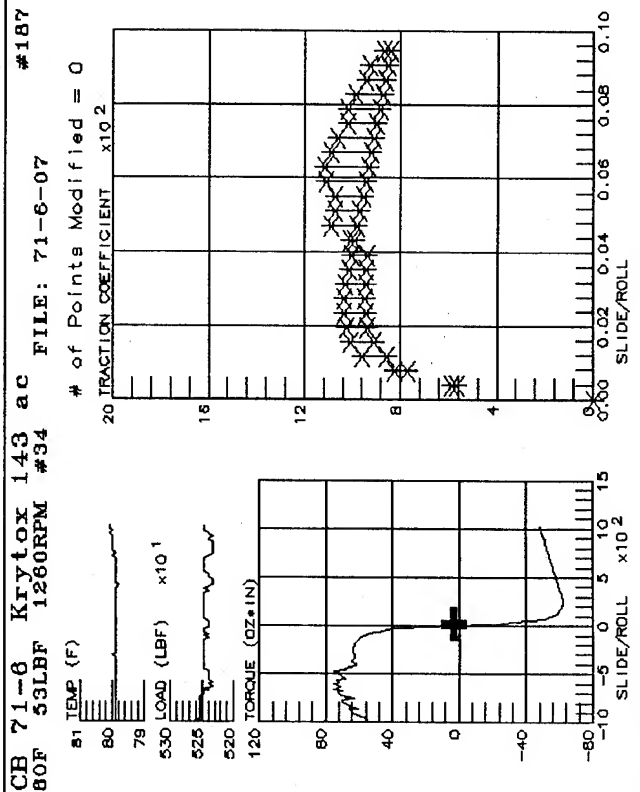
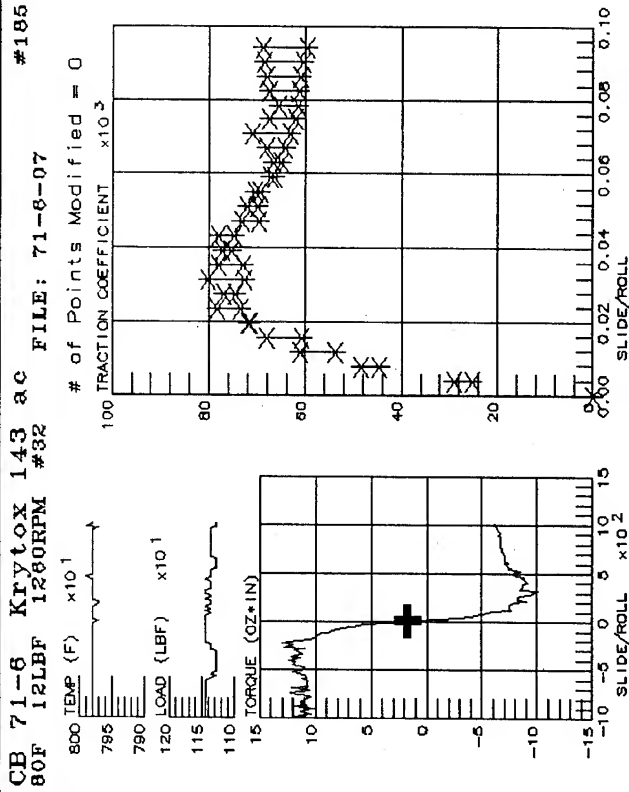
TRACTION DATA



TRACTION DATA

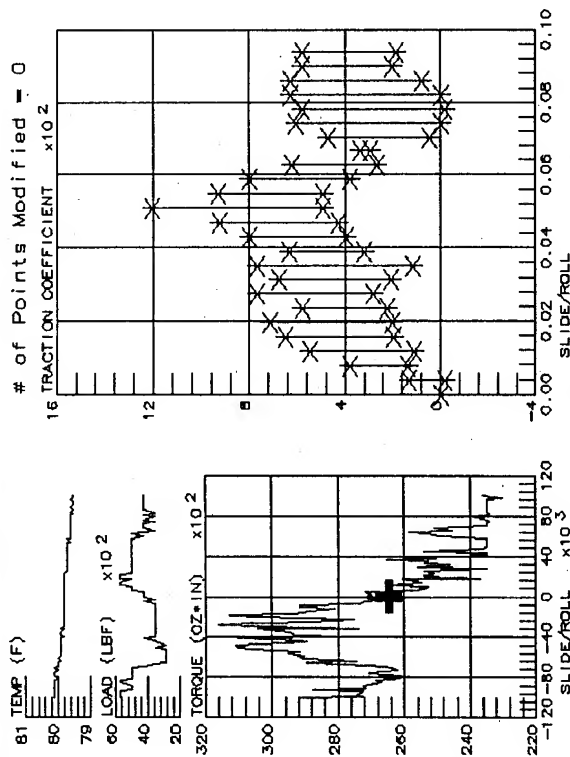


TRACTION DATA

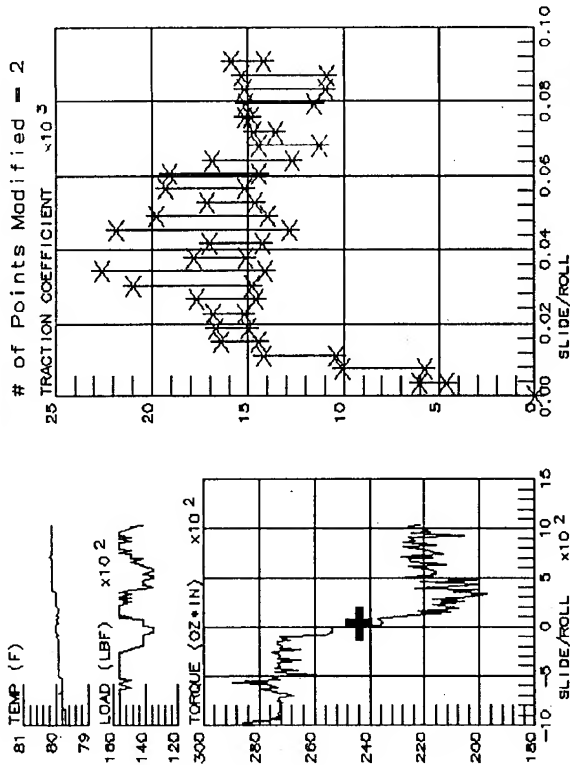


TRACTION DATA

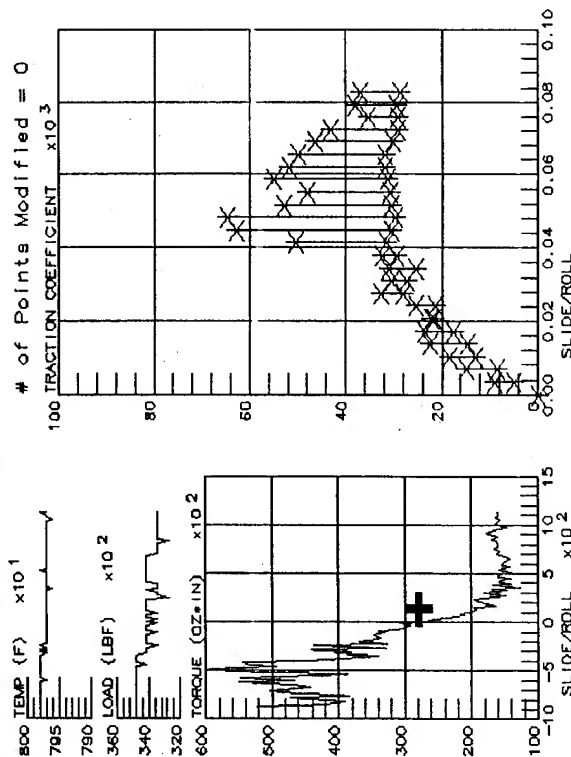
CB 71-6 Krytox 143 ac FILE: 71-6-07 #189
80F 11BF 2559RPM #36



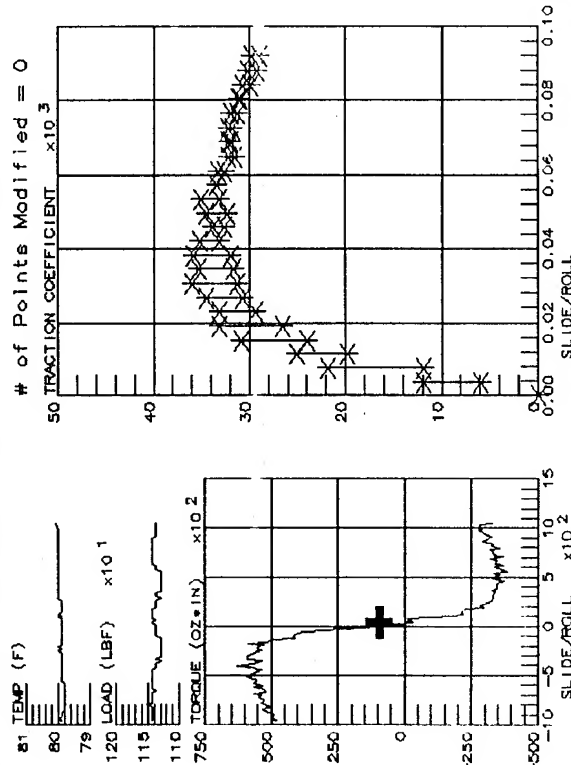
CB 71-6 Krytox 143 ac FILE: 71-6-07 #190
80F 2LBF 2559RPM #37



CB 71-6 Krytox 143 ac FILE: 71-6-07 #191
80F 4LBF 2559RPM #38



CB 71-6 Krytox 143 ac FILE: 71-6-07 #192
80F 12LBF 2559RPM #39



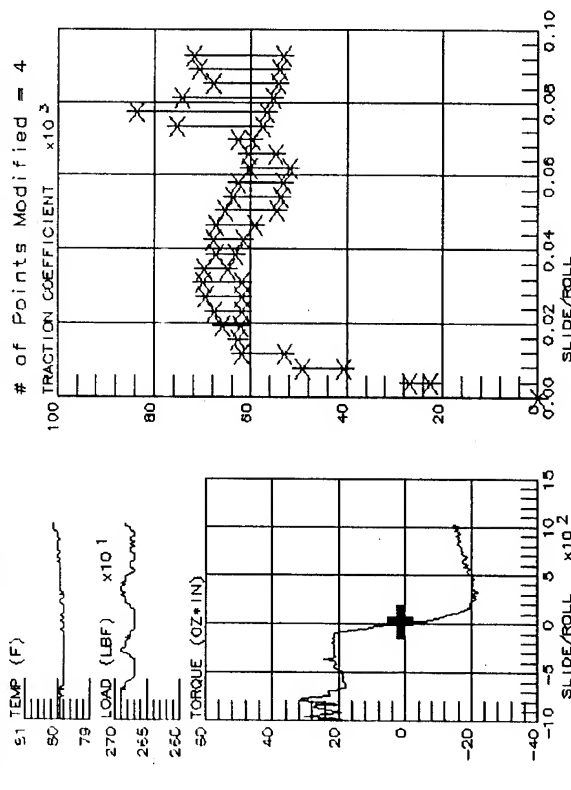
TRACTION DATA

CB 71-6 Krytox 143 ac FILE: 71-6-07

#193

80F 27LBF 2559RPM #40

of Points Modified = 4

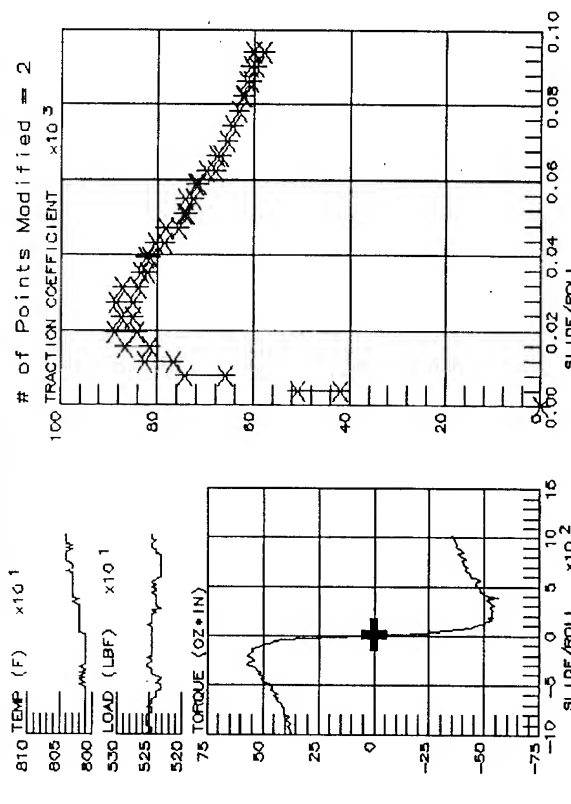


CB 71-6 Krytox 143 ac FILE: 71-6-07

#194

80F 53LBF 2559RPM #41

of Points Modified = 2

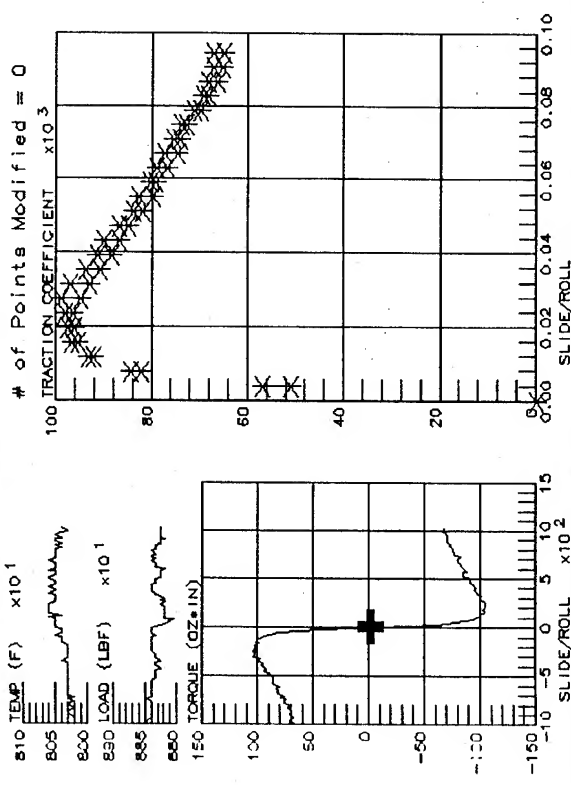


CB 71-6 Krytox 143 ac FILE: 71-6-07

#195

80F 89LBF 2559RPM #42

of Points Modified = 0

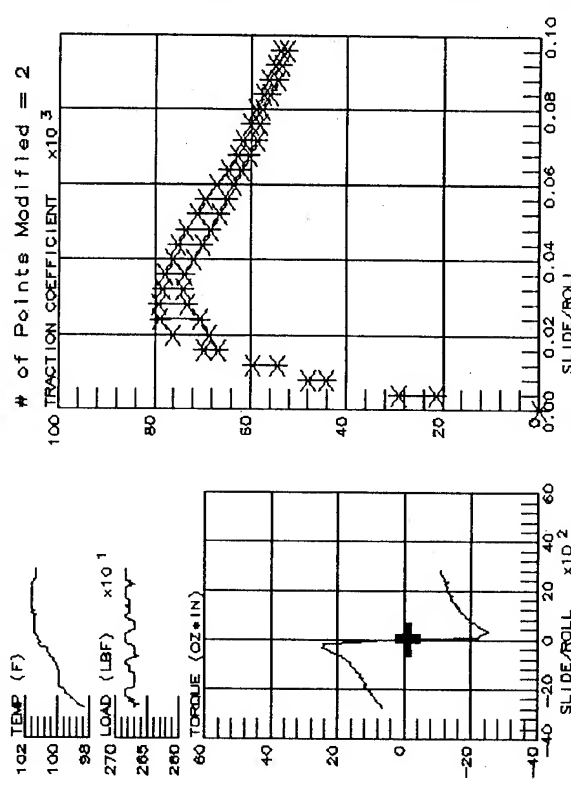


CB 71-6 Krytox 143 ac FILE: 71-6-07x

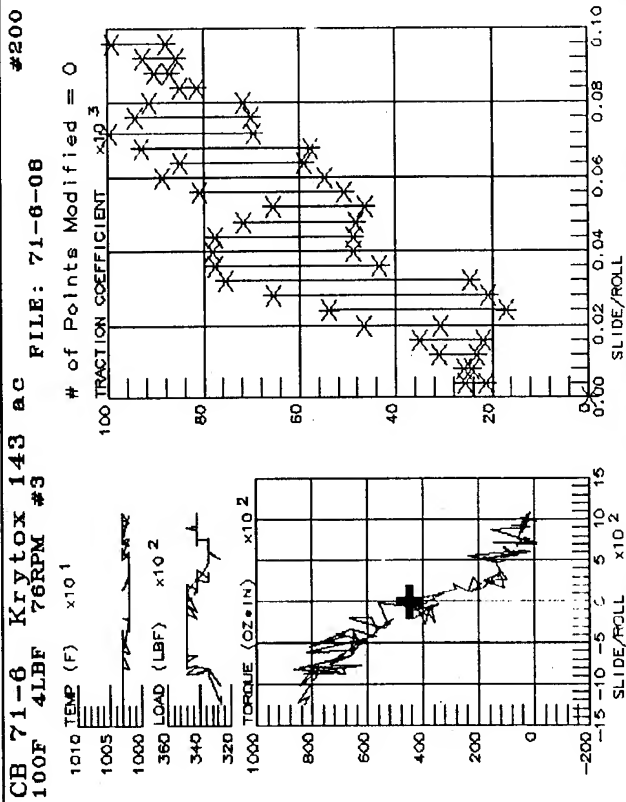
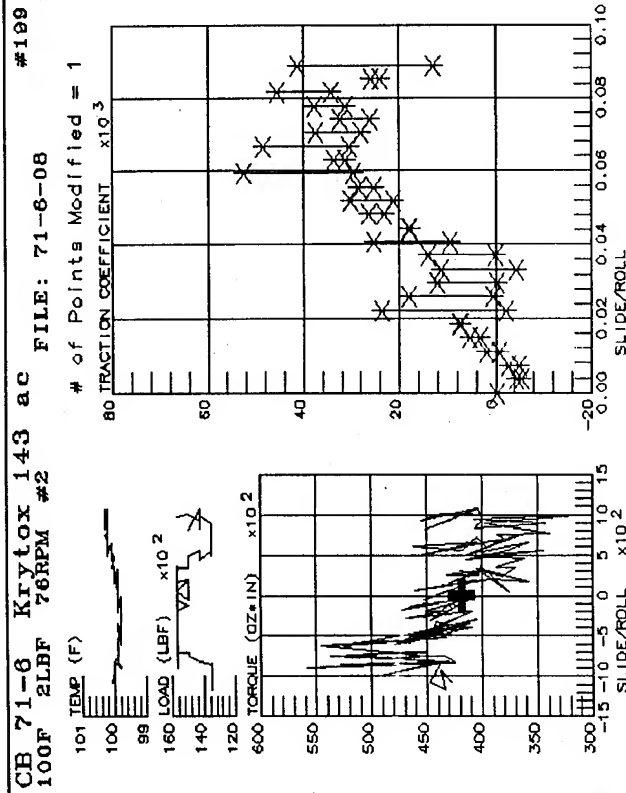
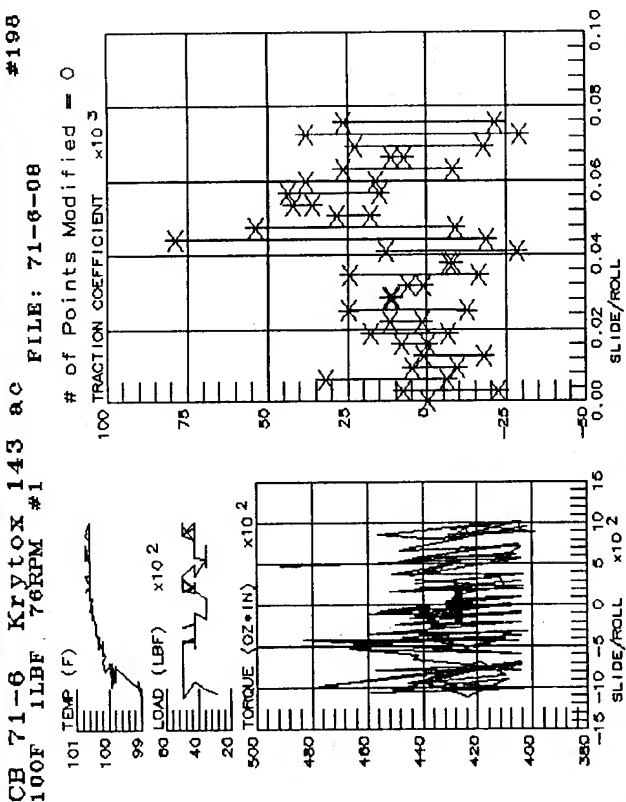
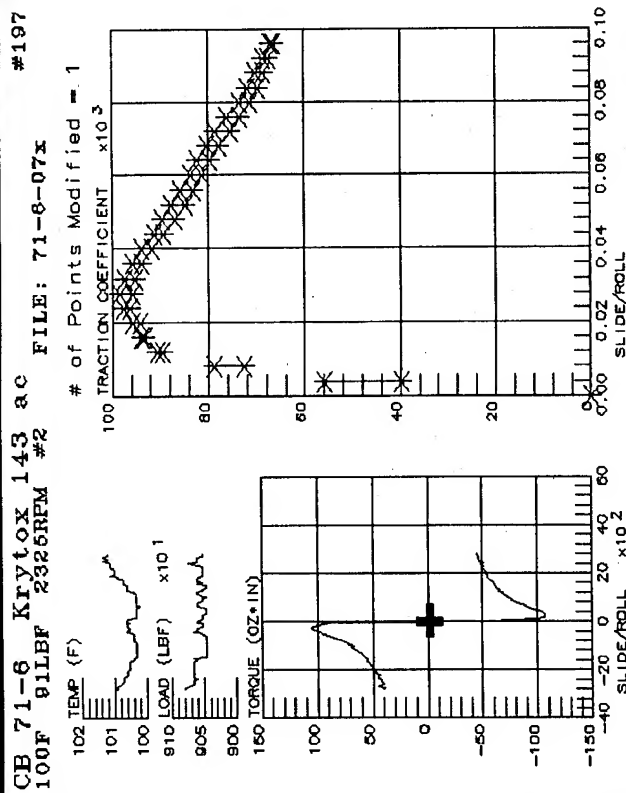
#196

100F 27LBF 2325RPM #1

of Points Modified = 2

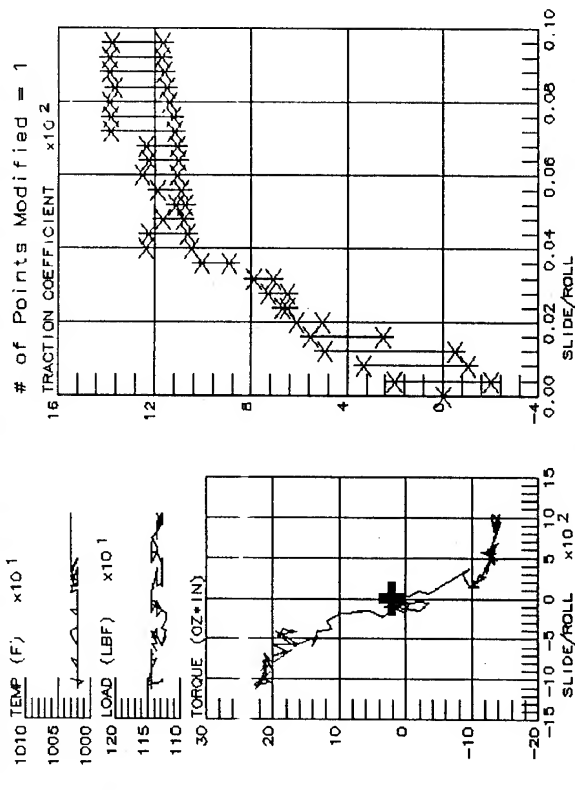


TRACTION DATA

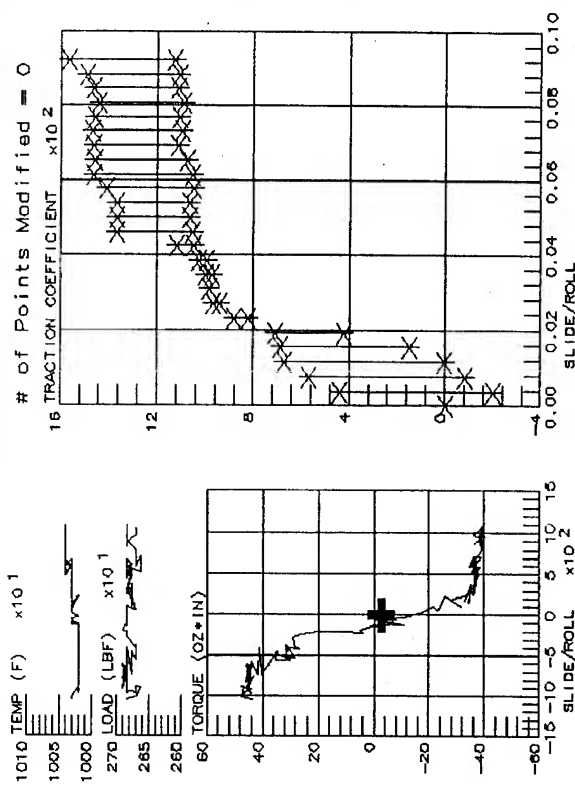


TRACTION DATA

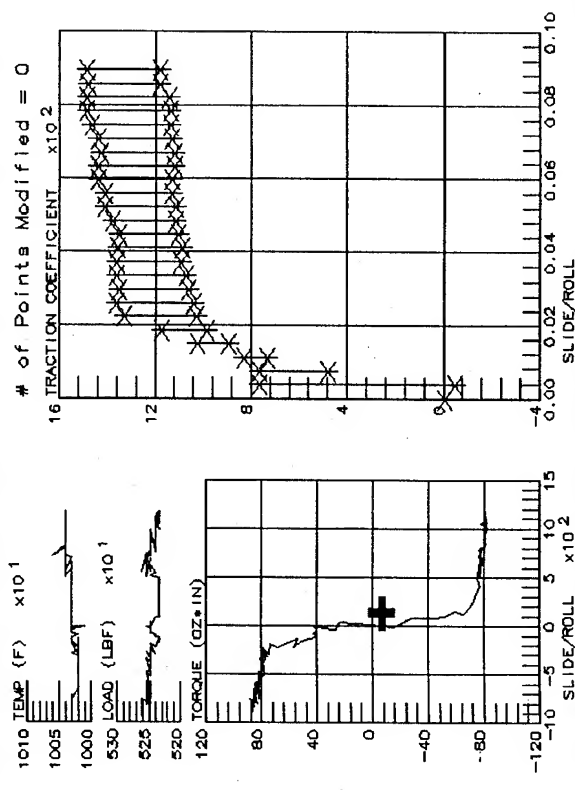
CB 71-6 Krytox 143 ac FILE: 71-6-08 #201
100F 12LBF 76RPM #4



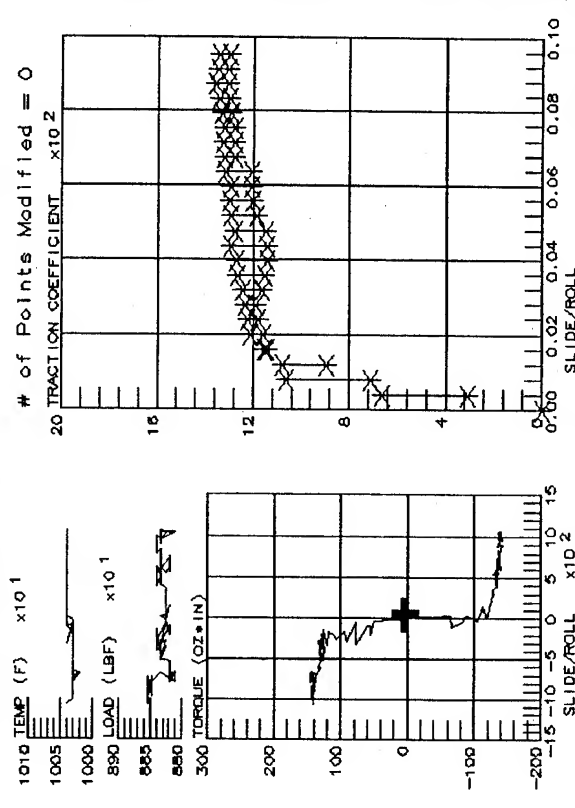
CB 71-6 Krytox 143 ac FILE: 71-6-08 #202
100F 27LBF 76RPM #5



CB 71-6 Krytox 143 ac FILE: 71-6-08 #203
100F 53LBF 76RPM #6

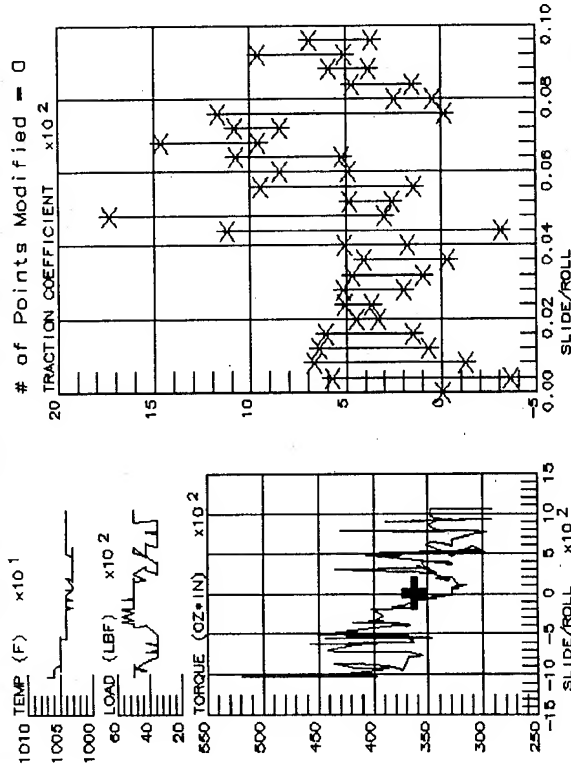


CB 71-6 Krytox 143 ac FILE: 71-6-08 #204
100F 89LBF 76RPM #7

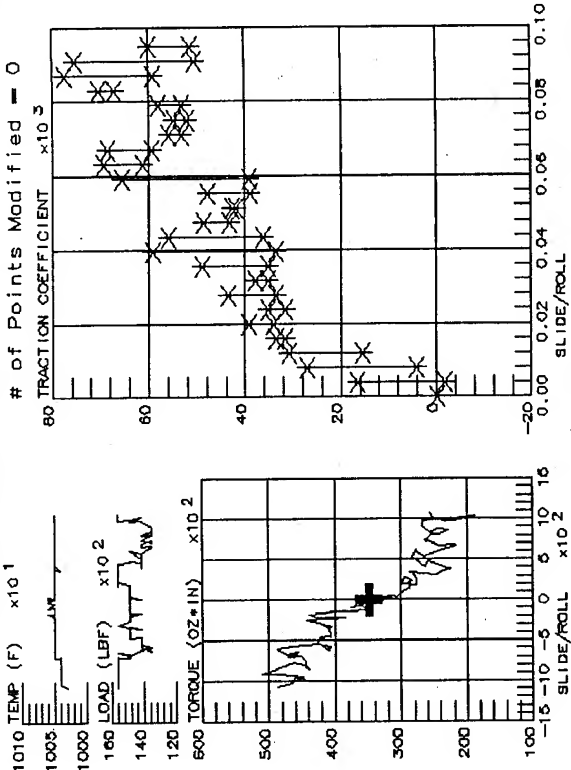


TRACTION DATA

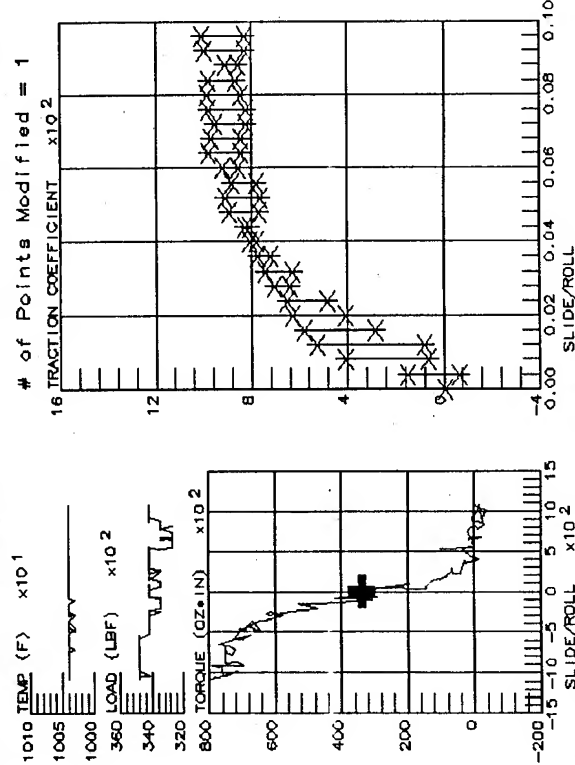
CB 71-6 Krytox 143 ac FILE: 71-6-08 #205
100F 1LBF 152RPM #8



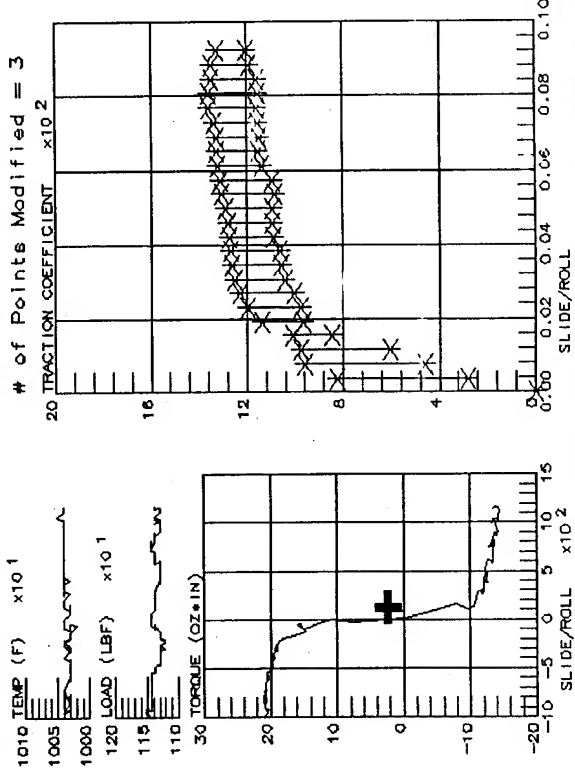
CB 71-6 Krytox 143 ac FILE: 71-6-08 #206
100F 2LBF 152RPM #9



CB 71-6 Krytox 143 ac FILE: 71-6-08 #207
100F 4LBF 152RPM #10



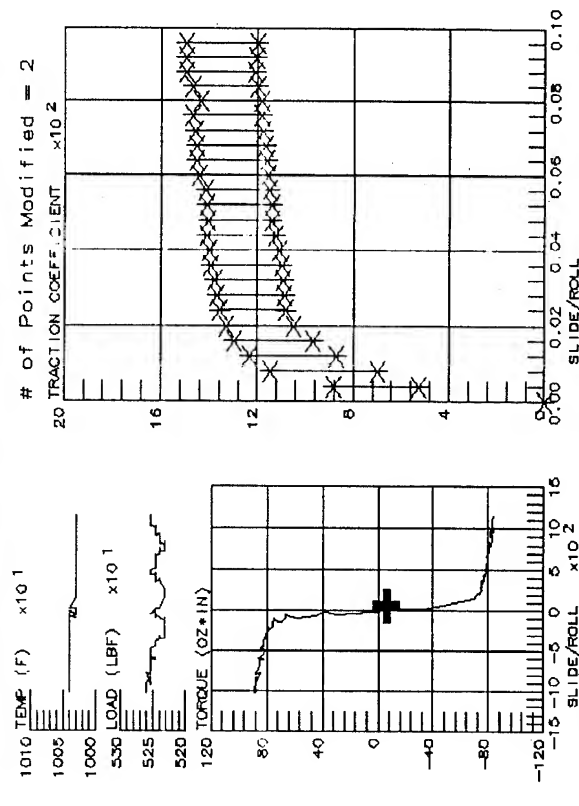
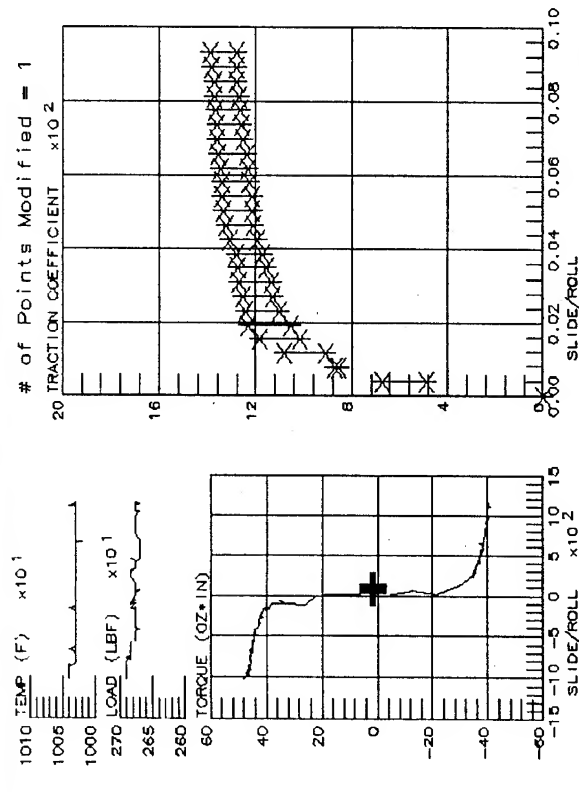
CB 71-6 Krytox 143 ac FILE: 71-6-08 #208
100F 12LBF 152RPM #11



TRACTION DATA

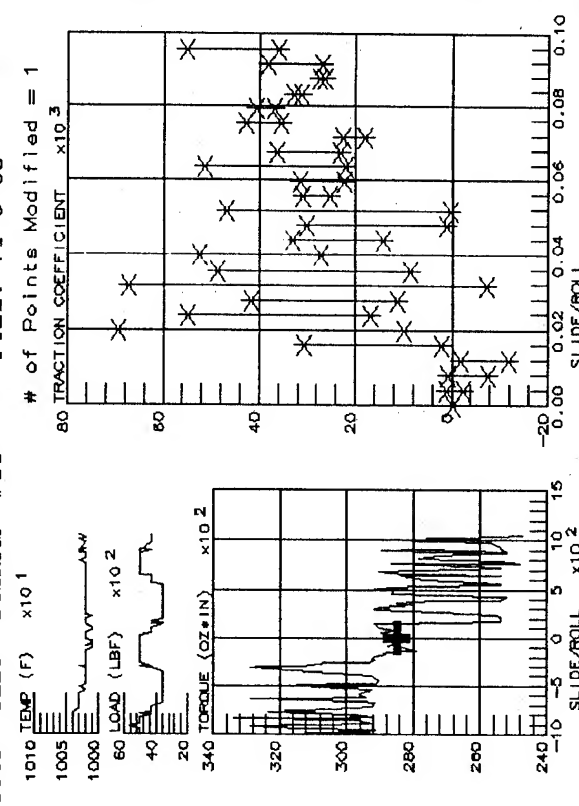
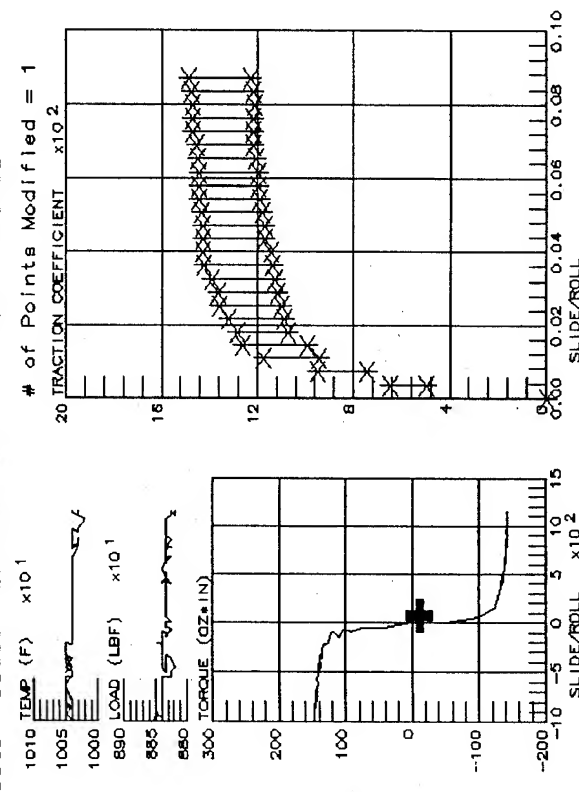
CB 71-6 Krytox 143 ac FILE: 71-6-08 #12

CB 71-6 Krytox 143 ac FILE: 71-6-08 #210



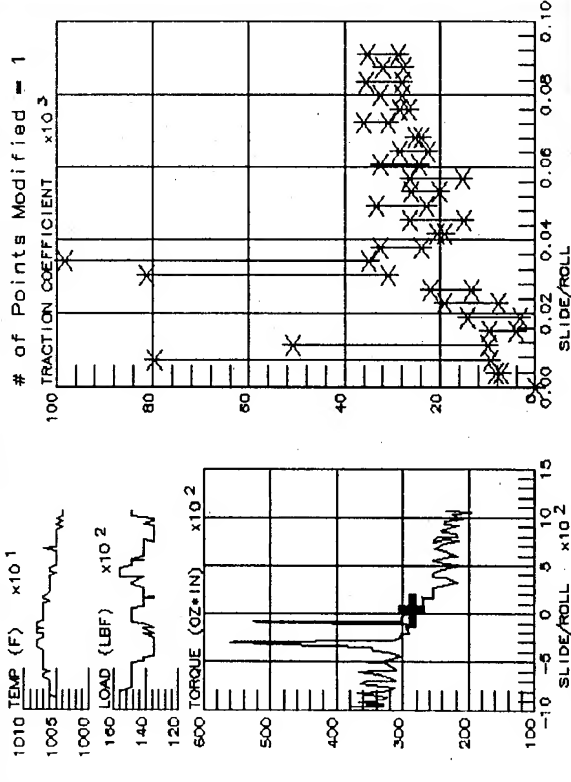
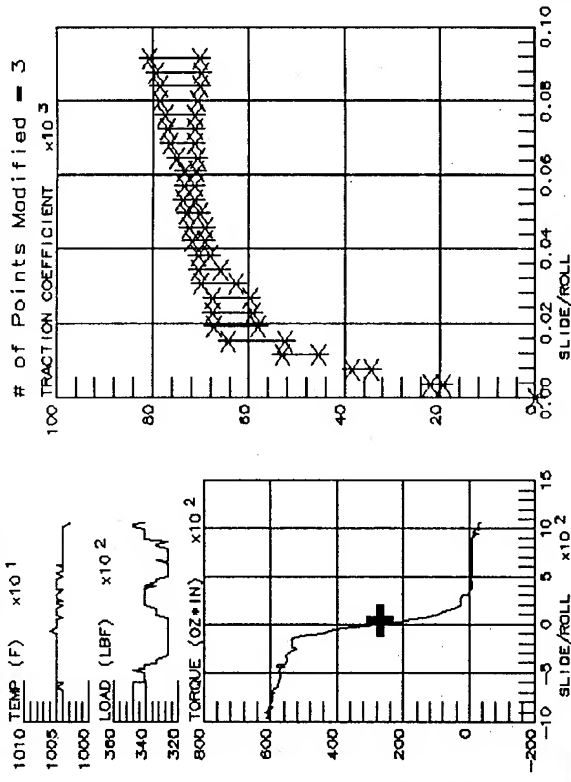
CB 71-6 Krytox 143 ac FILE: 71-6-08 #14

CB 71-6 Krytox 143 ac FILE: 71-6-08 #212

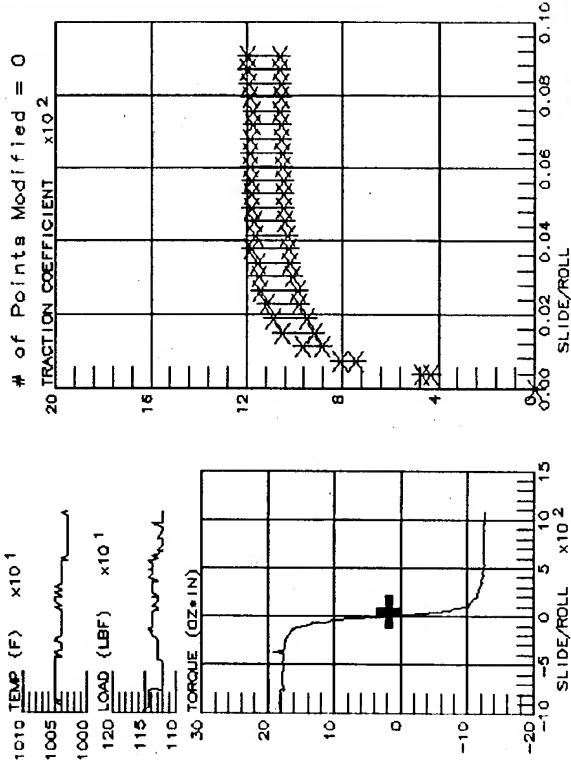
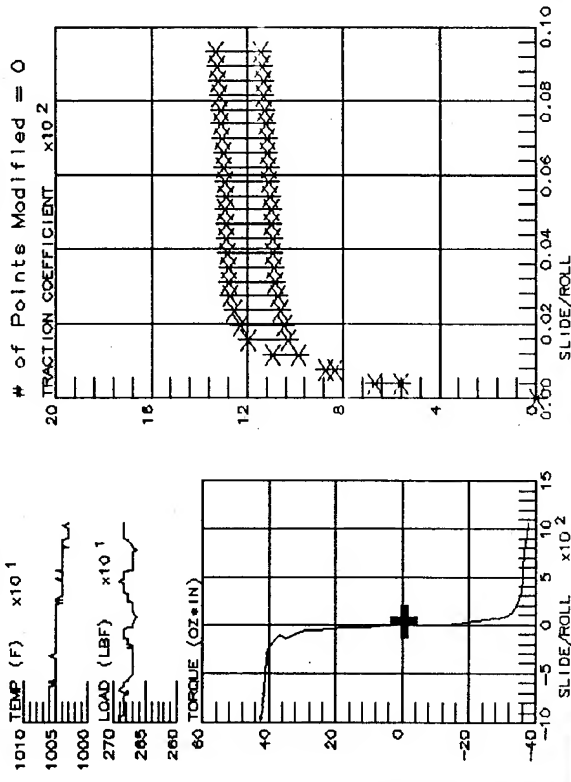


TRACTION DATA

CB 71-6 Krytox 143 ac FILE: 71-6-08 #214
 100F 4LBF 342RPM #17

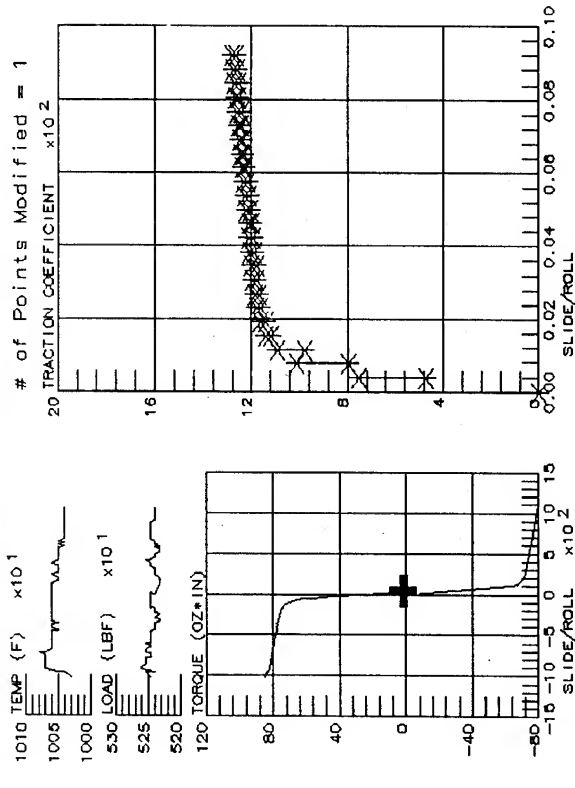


CB 71-6 Krytox 143 ac FILE: 71-6-08 #216
 100F 27LBF 342RPM #19

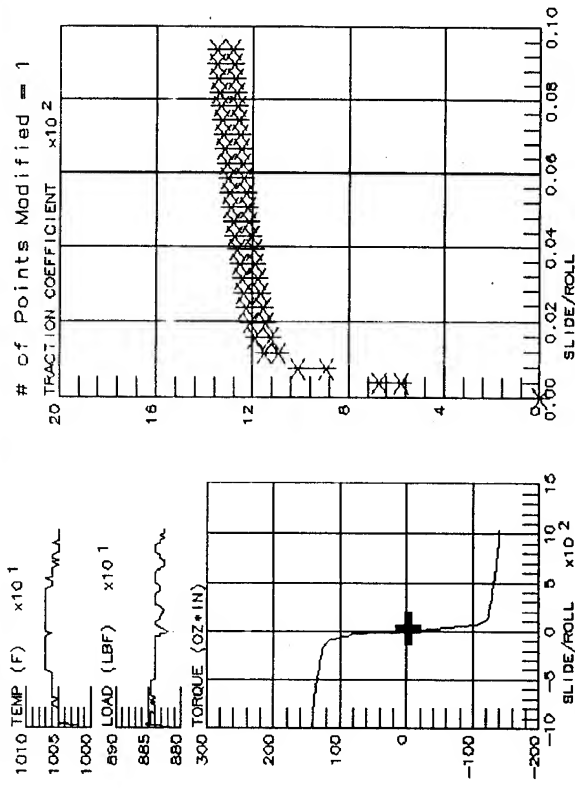


TRACTION DATA

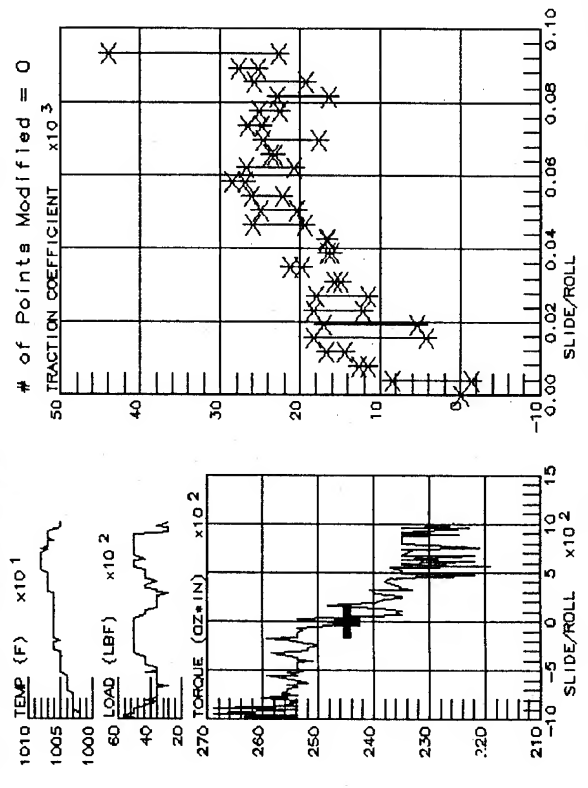
CB 71-6 Krytox 143 ac FILE: 71-6-08 #217
100F 53LBF 342RPM #20



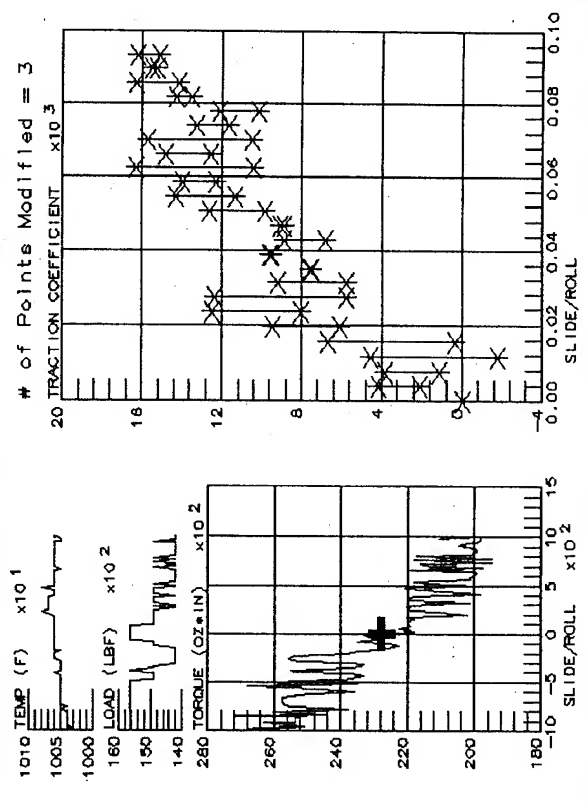
CB 71-6 Krytox 143 ac FILE: 71-6-08 #218
100F 89LBF 342RPM #21



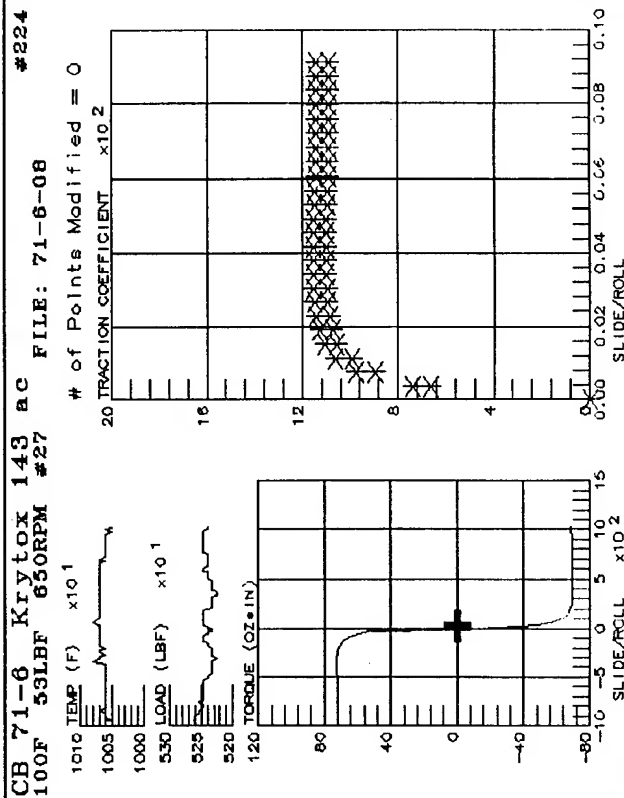
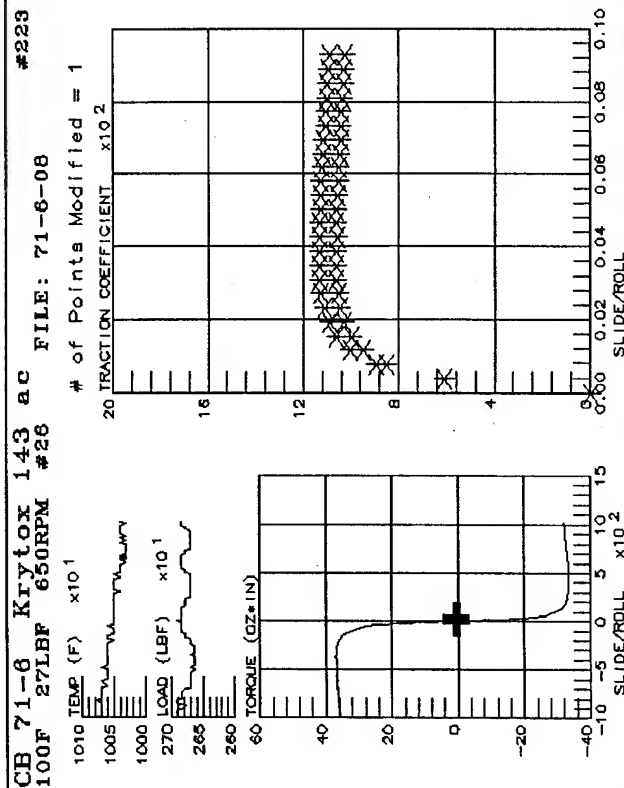
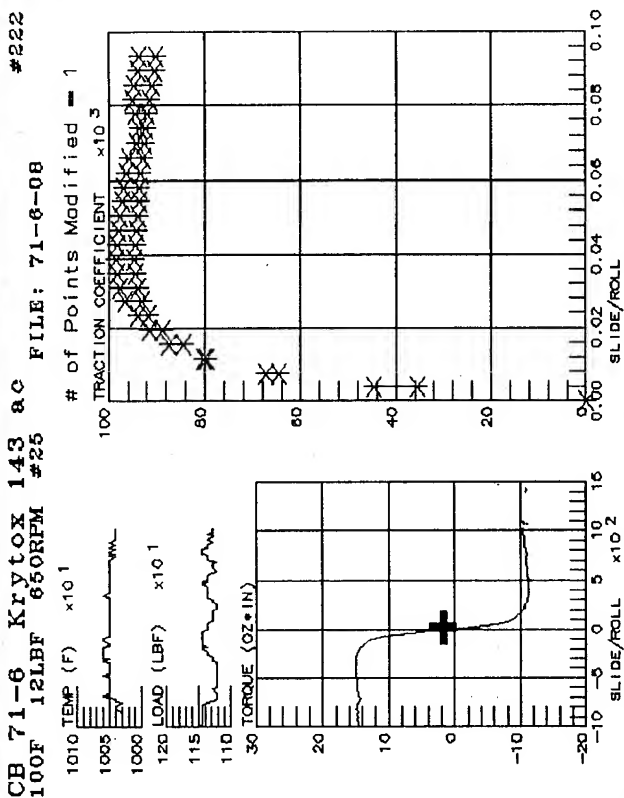
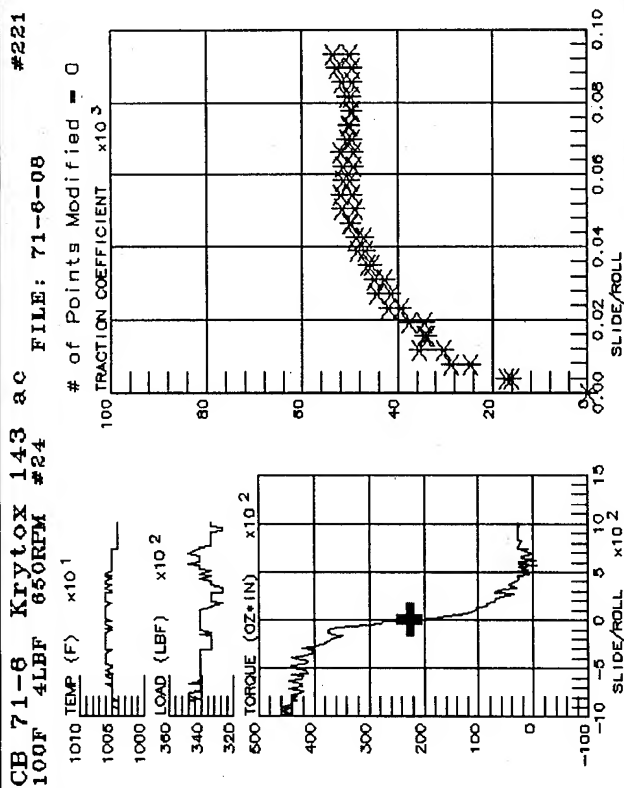
CB 71-6 Krytox 143 ac FILE: 71-6-08 #219
100F 1LBF 650RPM #22



CB 71-6 Krytox 143 ac FILE: 71-6-08 #220
100F 2LBF 650RPM #23

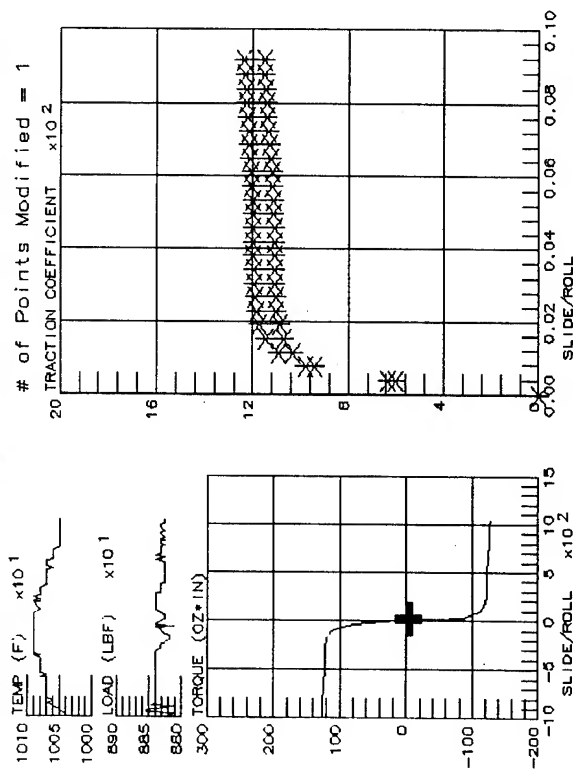


TRACTION DATA

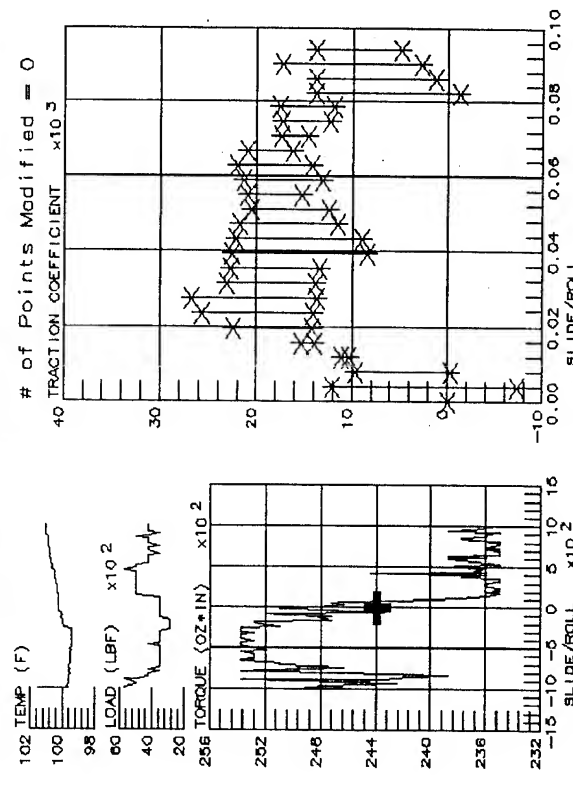


TRACTION DATA

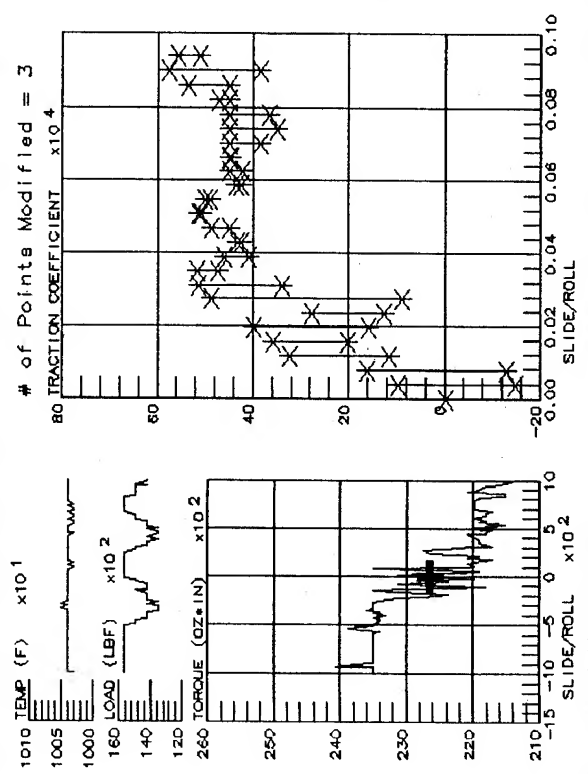
CB 71-6 Krytox 143 ac FILE: 71-6-08 #225
100F 89LBF 650RPM #28



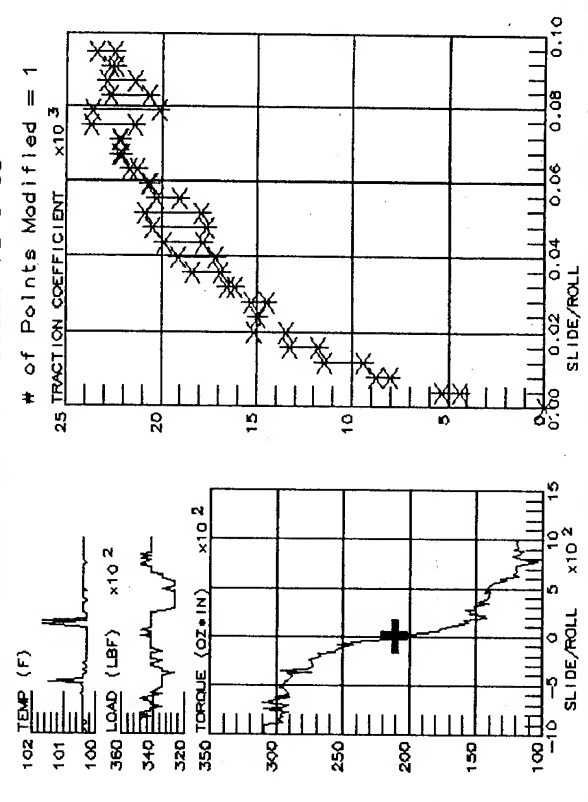
CB 71-6 Krytox 143 ac FILE: 71-6-08 #226
100F 1LBF 1260RPM #29



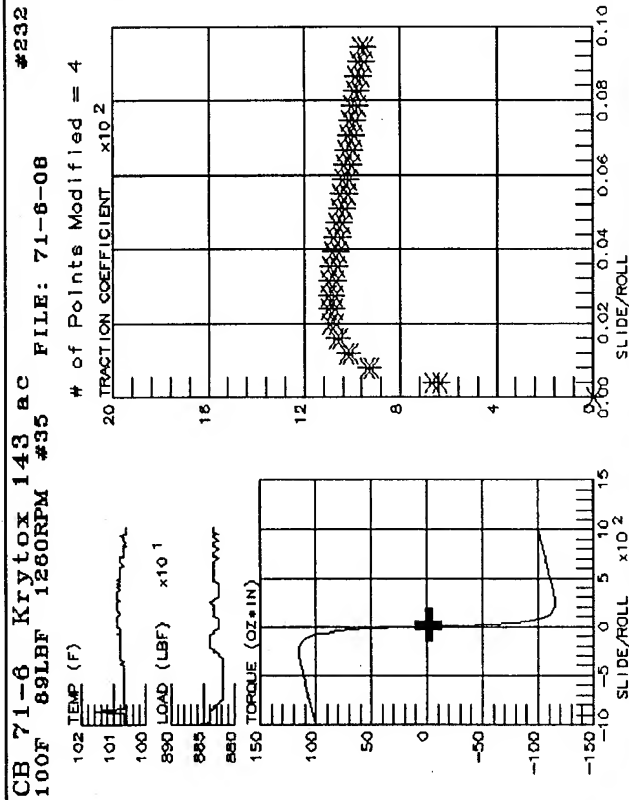
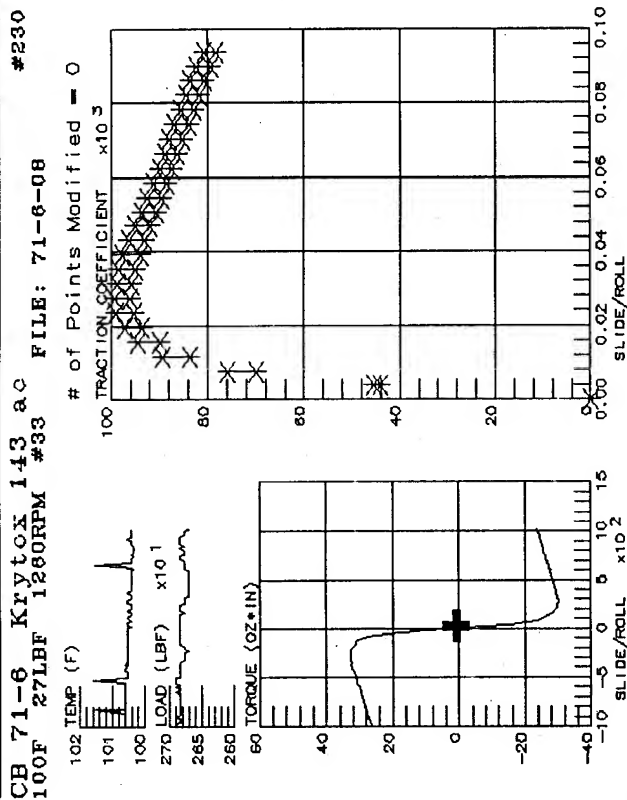
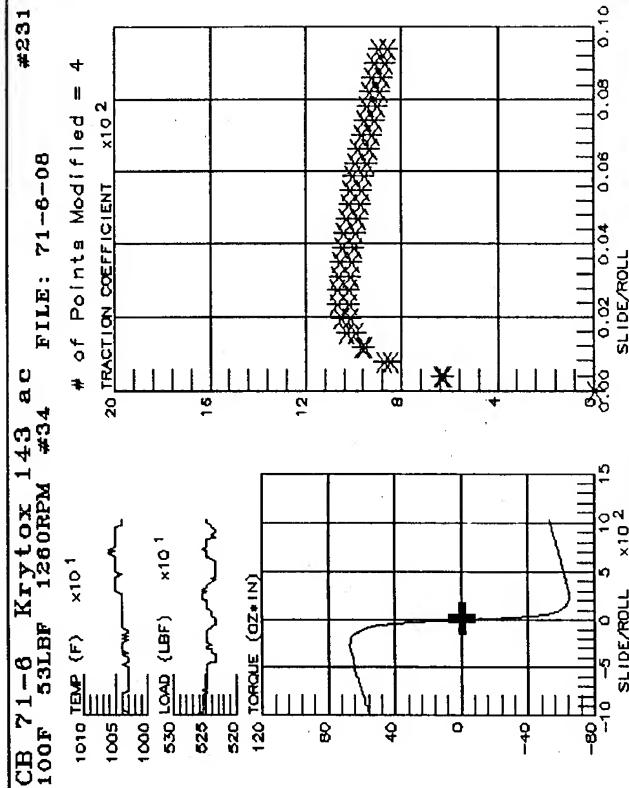
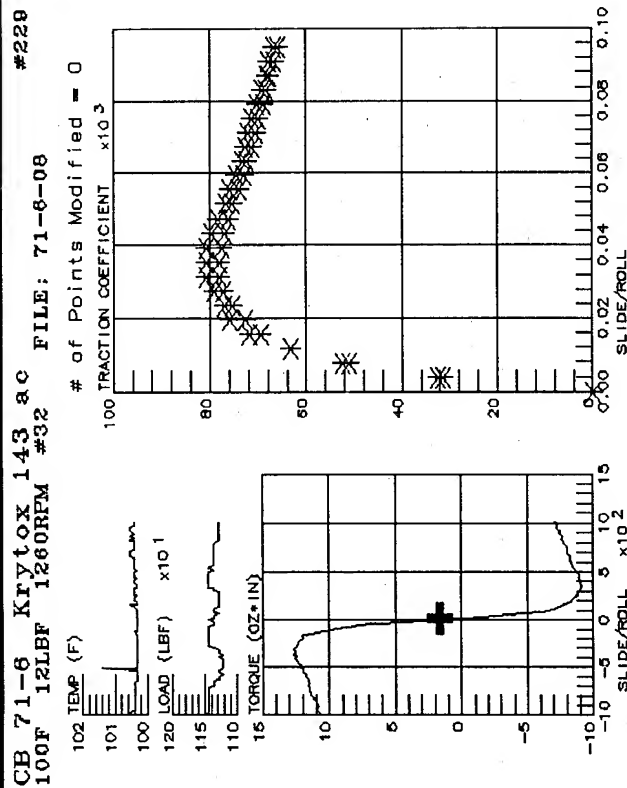
CB 71-6 Krytox 143 ac FILE: 71-6-08 #227
100F 2LBF 1260RPM #30



CB 71-6 Krytox 143 ac FILE: 71-6-08 #228
100F 4LBF 1260RPM #31



TRACTION DATA



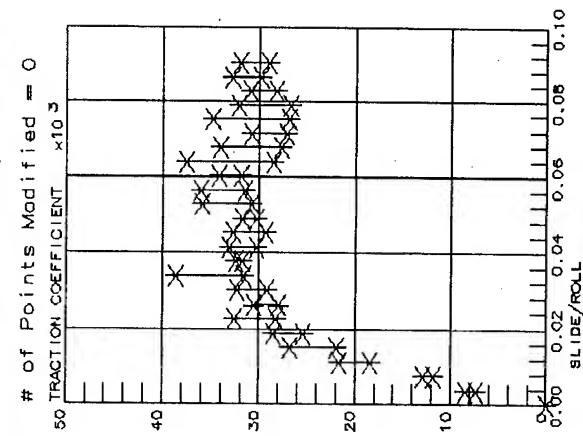
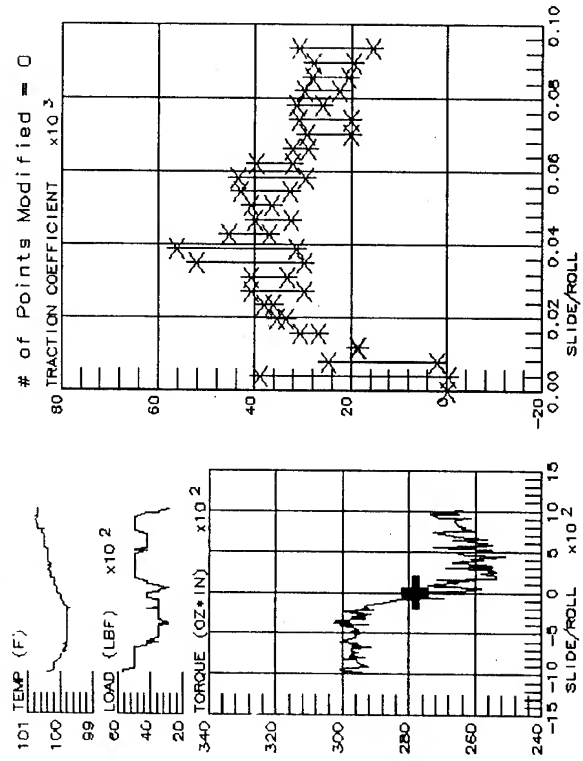
TRACTION DATA

CB 71-6 Krytox 143 ac
100F 1LBF 2559RPM #38

CB 71-6 Krytox 143 ac
100F 2LBF 2559RPM #37

#234

FILE: 71-6-08

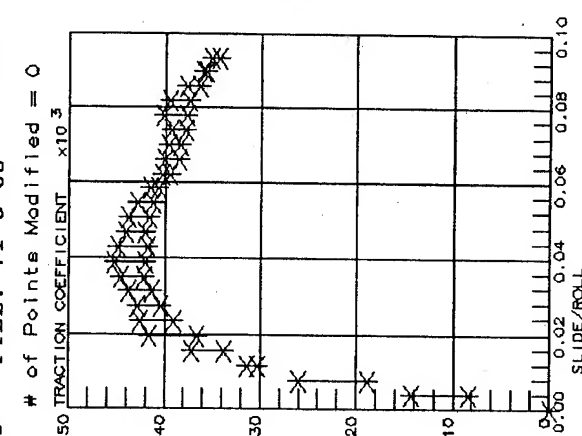
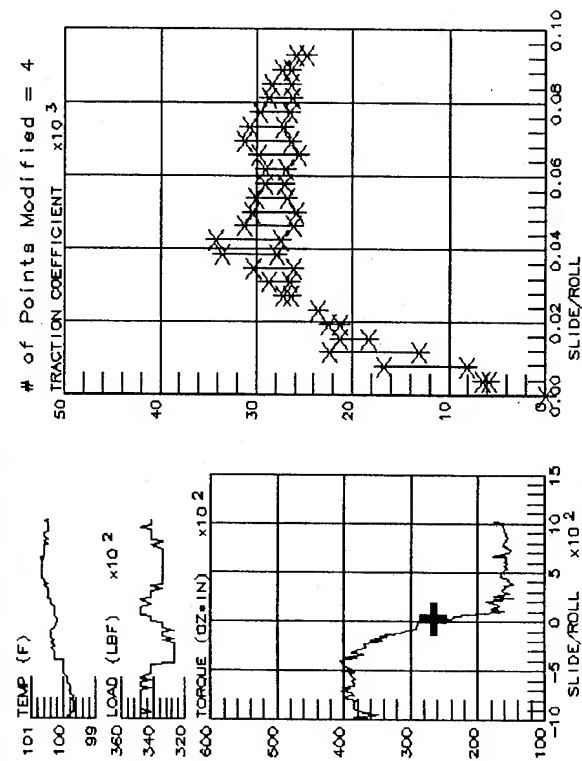


CB 71-6 Krytox 143 ac
100F 4LBF 2559RPM #38

CB 71-6 Krytox 143 ac
100F 12LBF 2559RPM #39

#236

FILE: 71-6-08

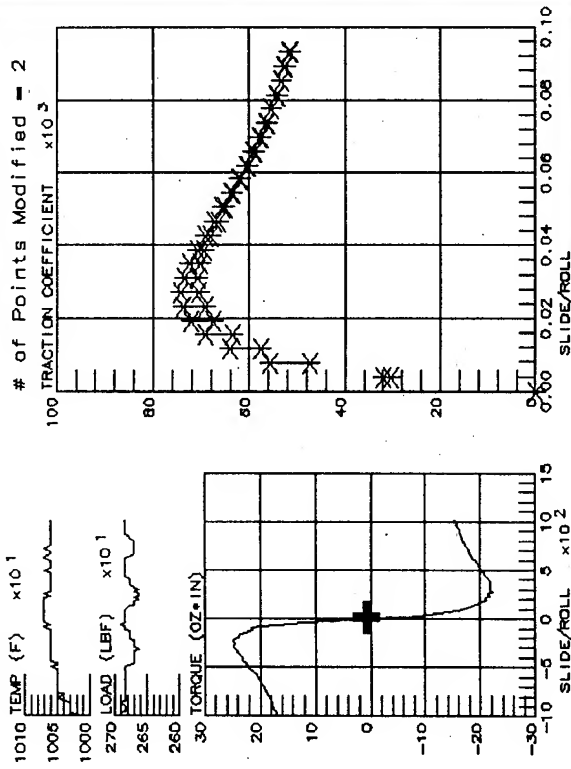


TRACTION DATA

CB 71-6 Krytox 143 ac
100F 27LBF 2559RPM #40 FILE: 71-6-08

#237

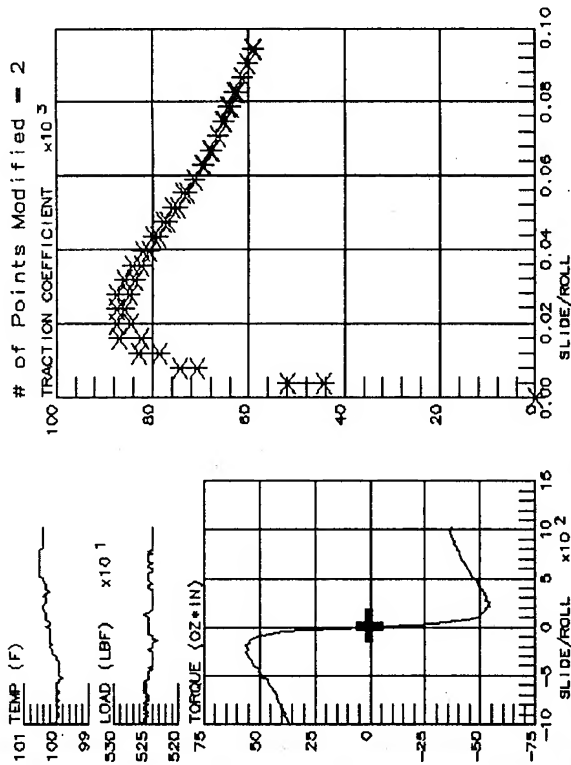
of Points Modified = 2



CB 71-6 Krytox 143 ac
100F 53LBF 2559RPM #41 FILE: 71-6-08

#238

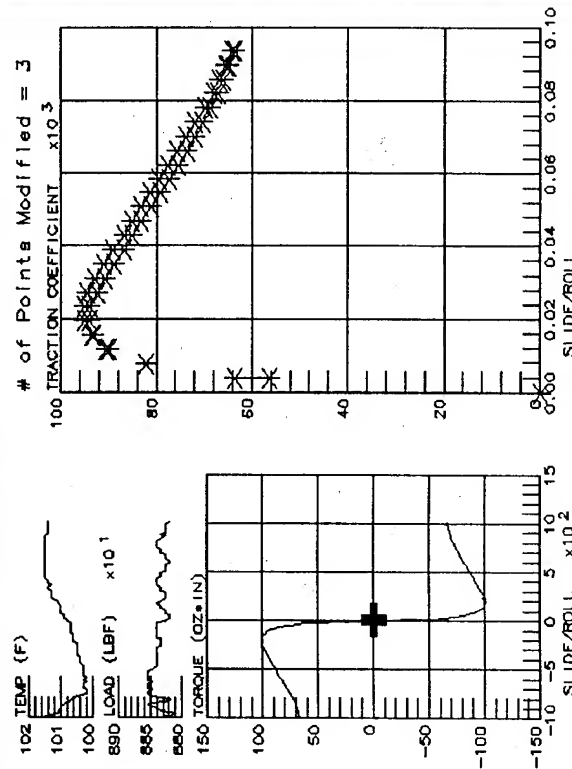
of Points Modified = 2



CB 71-6 Krytox 143 ac
100F 89LBF 2559RPM #42 FILE: 71-6-08

#239

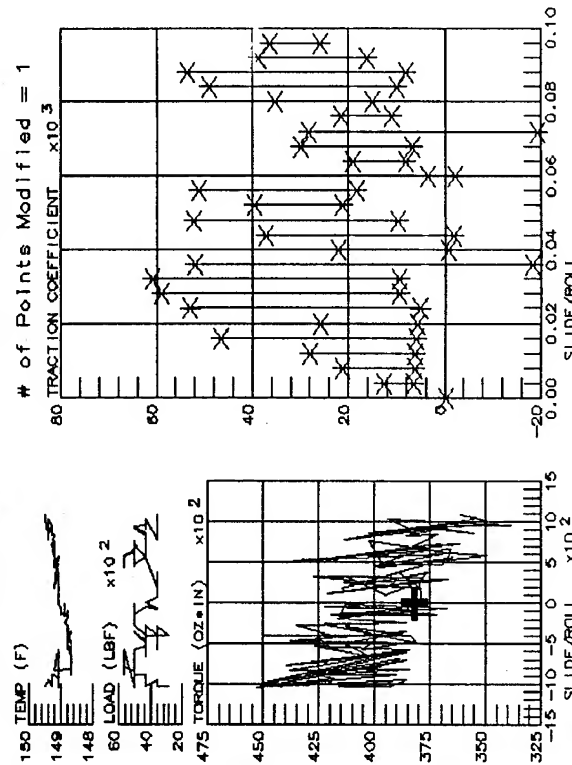
of Points Modified = 3



CB 71-6 Krytox 143 ac
150F 11LBF 76RPM #1 FILE: 71-6-09

#240

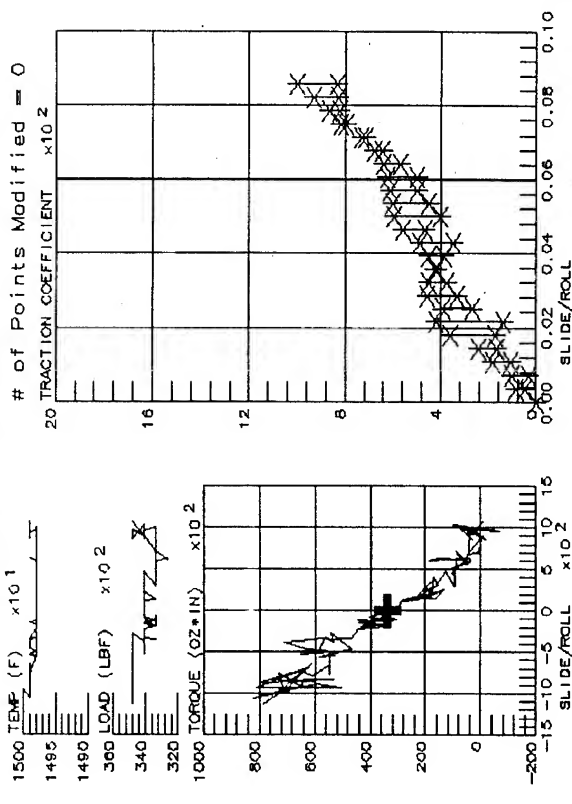
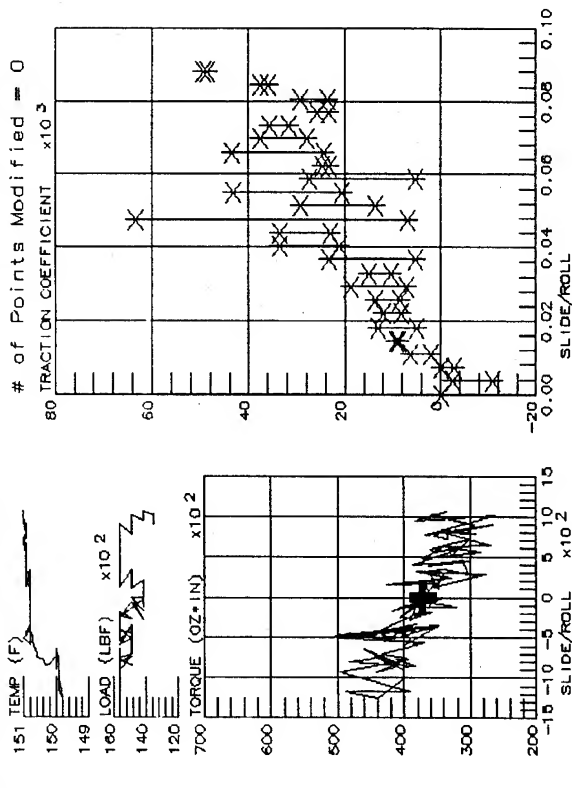
of Points Modified = 1



TRACTION DATA

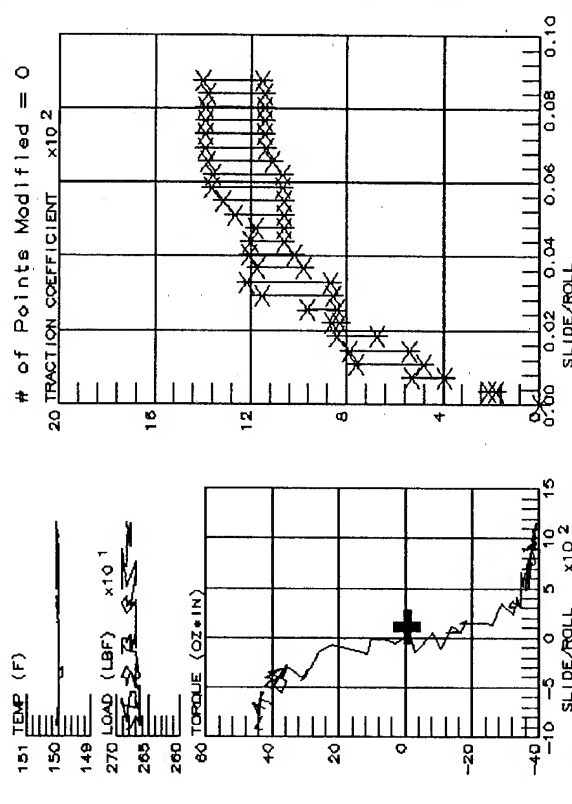
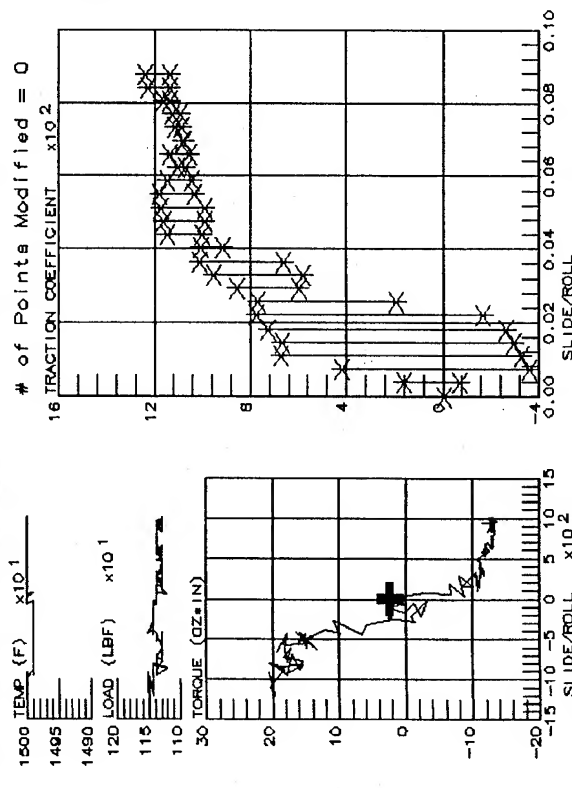
CB 71-6 Krytox 143 ac #241
150F 2LBF 76RPM #2

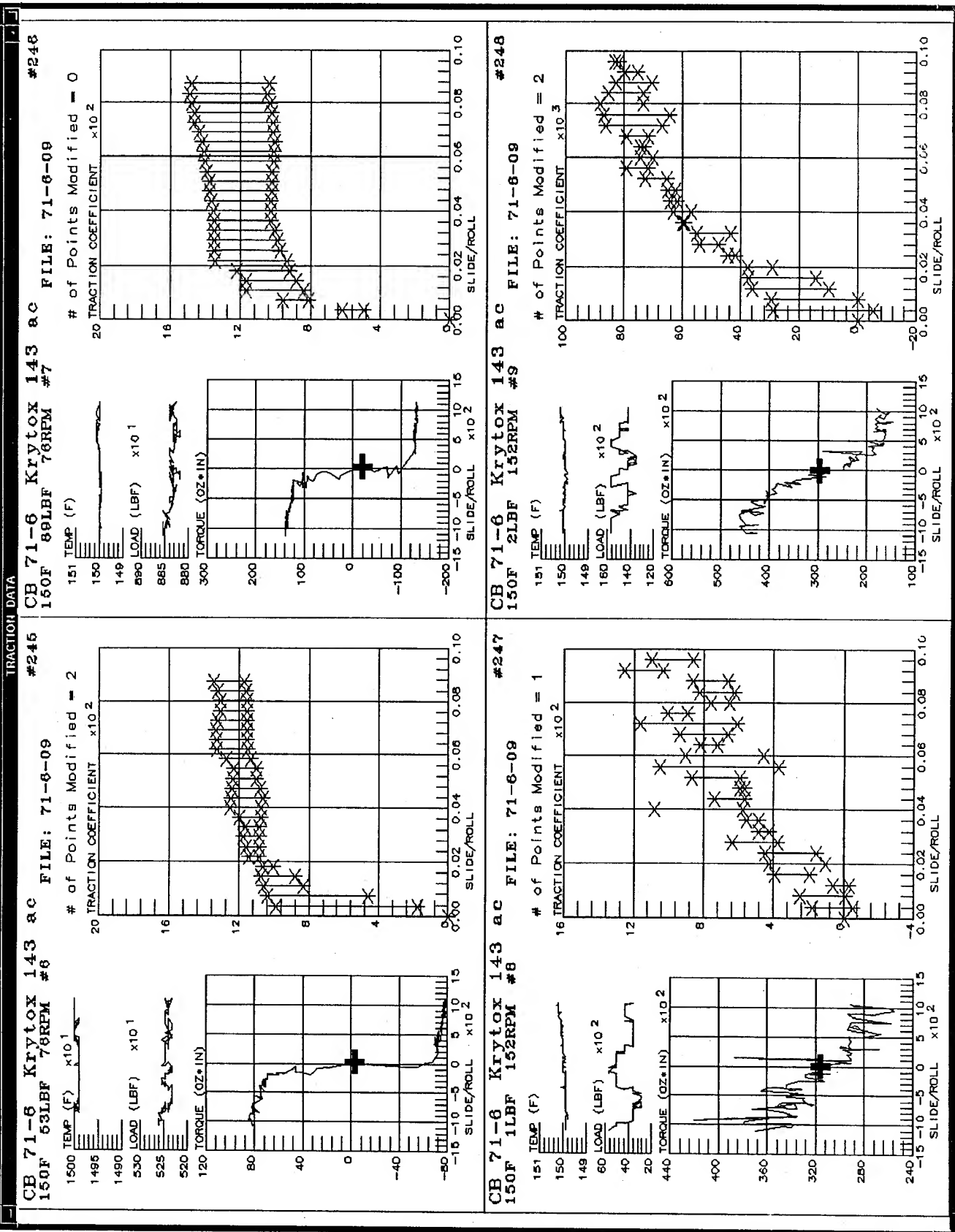
CB 71-6 Krytox 143 ac #242
150F 4LBF 76RPM #3



CB 71-6 Krytox 143 ac #243
150F 12LBF 76RPM #4

CB 71-6 Krytox 143 ac #244
150F 27LBF 76RPM #5





TRACTION DATA

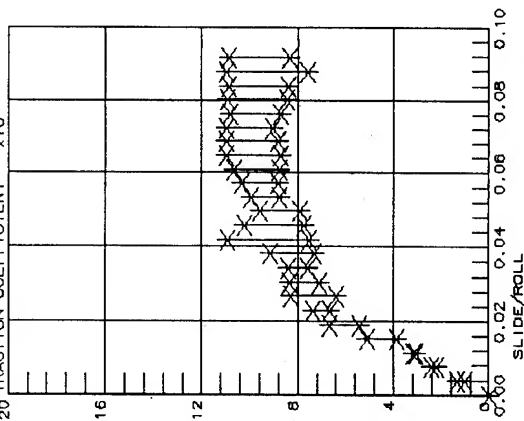
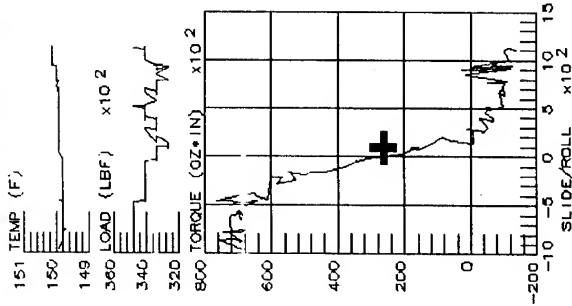
CB 71-6 Krytox 143 ac
150F 4LBF 152RPM #10

#249

FILE: 71-6-09

of Points Modified = 1

20 TRACTION COEFFICIENT $\times 10^2$



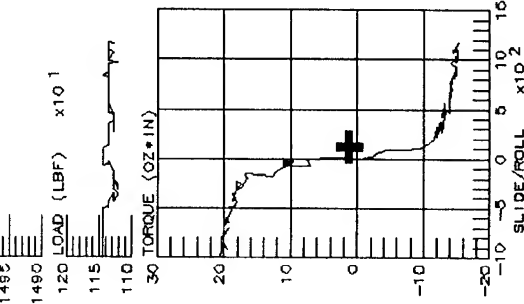
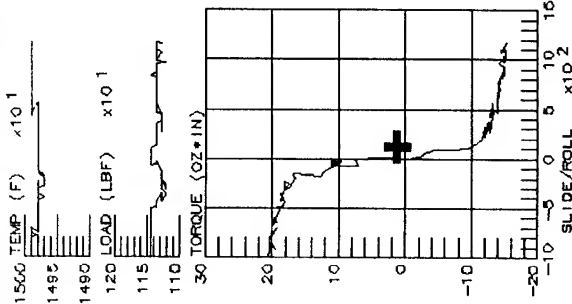
CB 71-6 Krytox 143 ac
150F 12LBF 152RPM #11

#250

FILE: 71-6-09

of Points Modified = 0

20 TRACTION COEFFICIENT $\times 10^2$



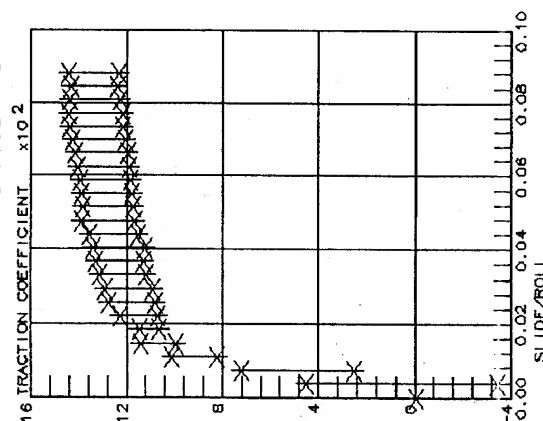
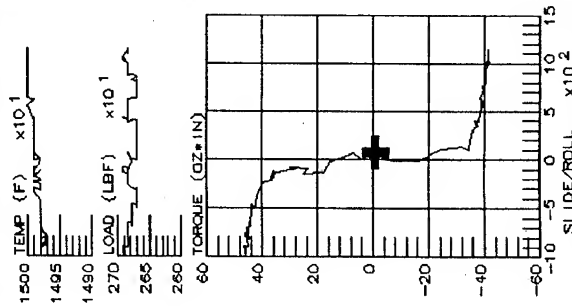
CB 71-6 Krytox 143 ac
150F 27LBF 152RPM #12

#251

FILE: 71-6-09

of Points Modified = 0

16 TRACTION COEFFICIENT $\times 10^2$



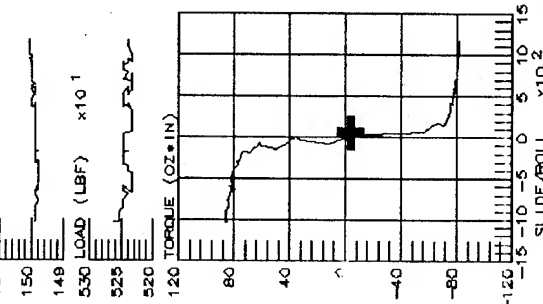
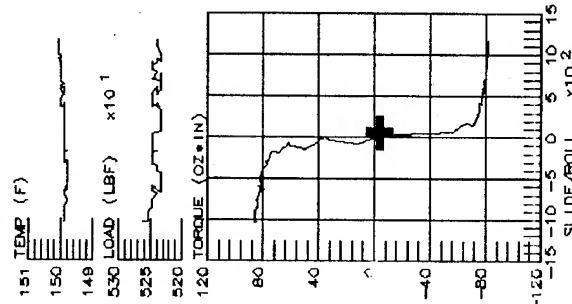
CB 71-6 Krytox 143 ac
150F 53LBF 152RPM #13

#252

FILE: 71-6-09

of Points Modified = 1

20 TRACTION COEFFICIENT $\times 10^2$



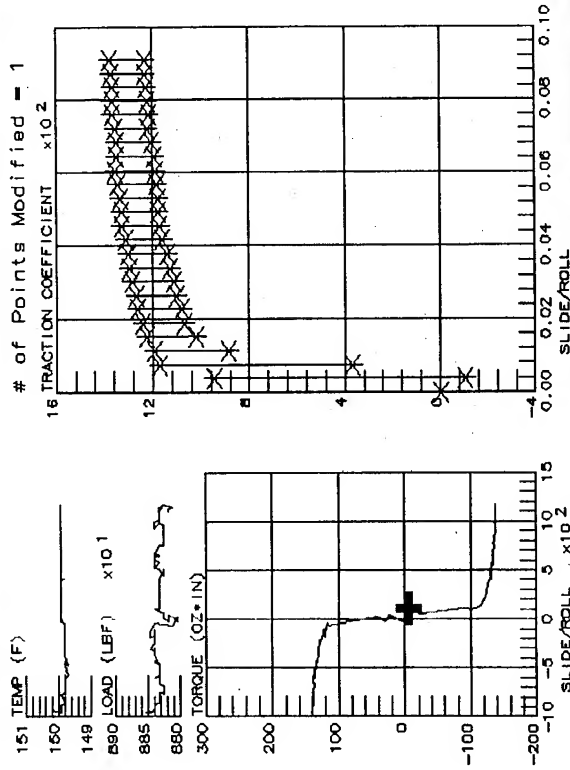
TRACTION DATA

CB 71-6 Krytox 143 ac
150F 89LBF 152RPM #14

#253

FILE: 71-6-09

of Points Modified = 1

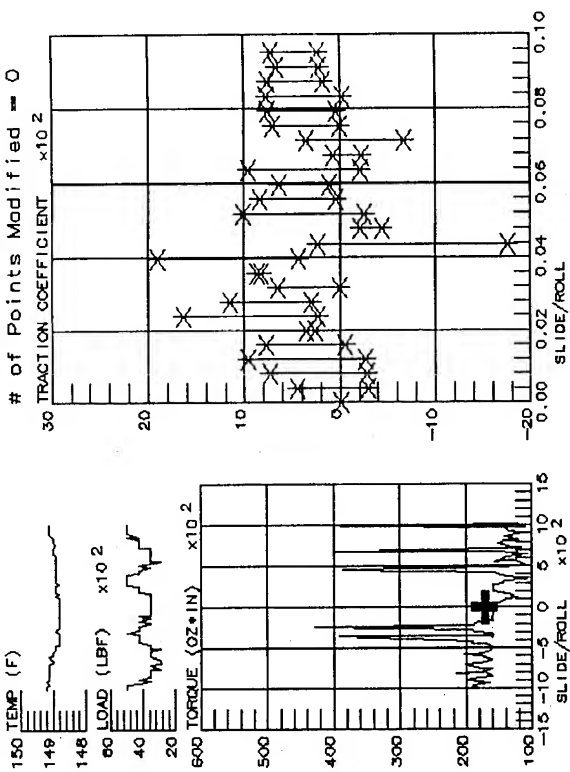


CB 71-6 Krytox 143 ac
150F 1LBF 342RPM #15

#254

FILE: 71-6-09

of Points Modified = 0

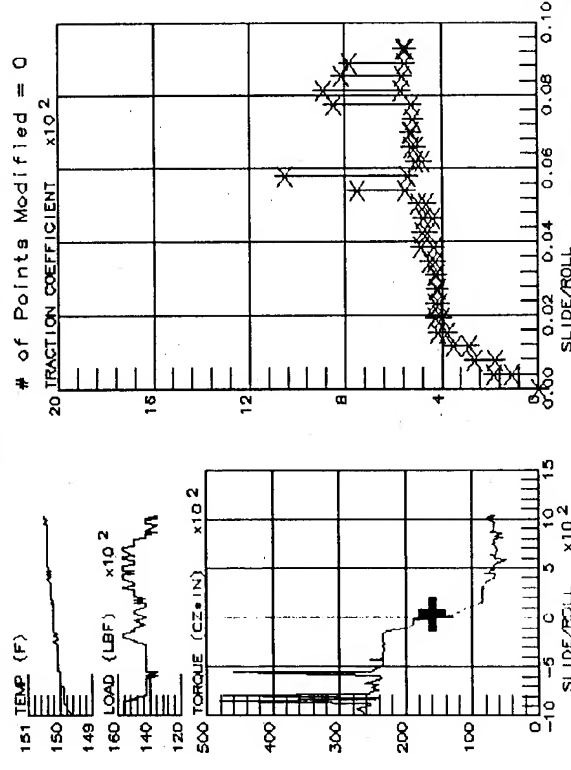


CB 71-6 Krytox 143 ac
150F 2LBF 342RPM #16

#255

FILE: 71-6-09

of Points Modified = 0

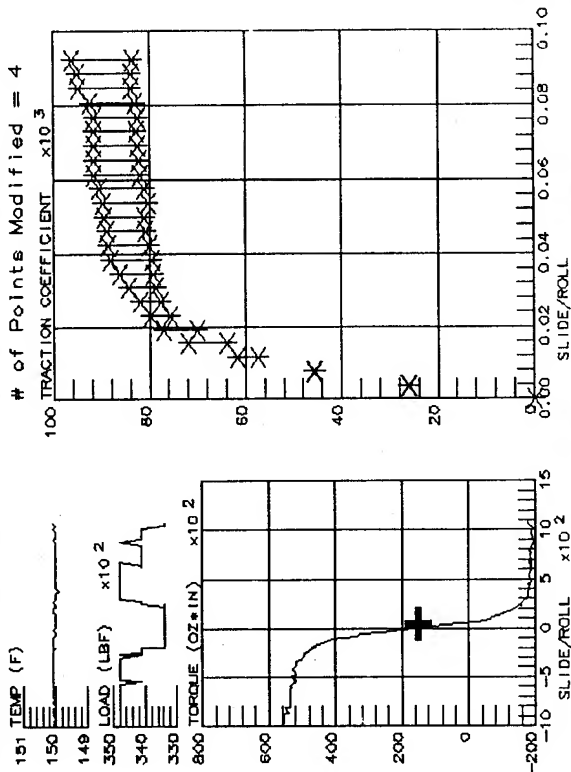


CB 71-6 Krytox 143 ac
150F 4LBF 342RPM #17

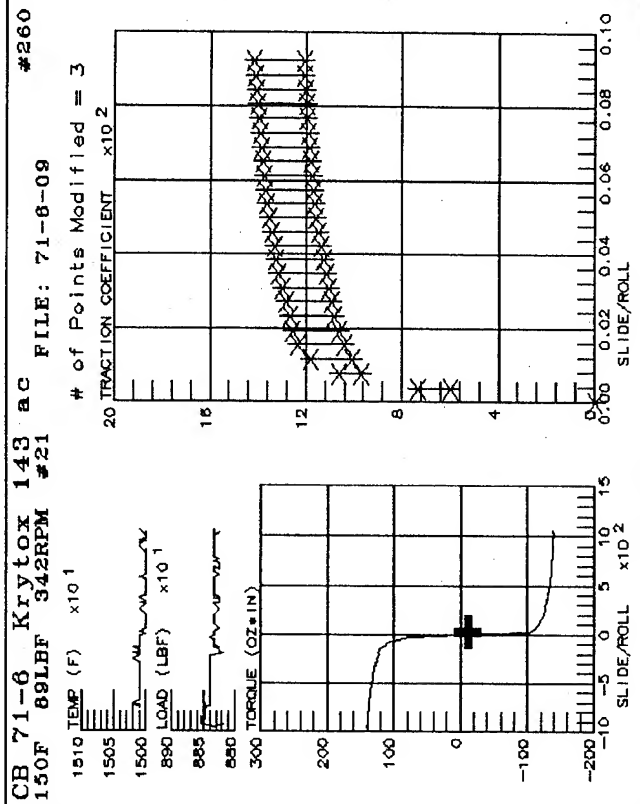
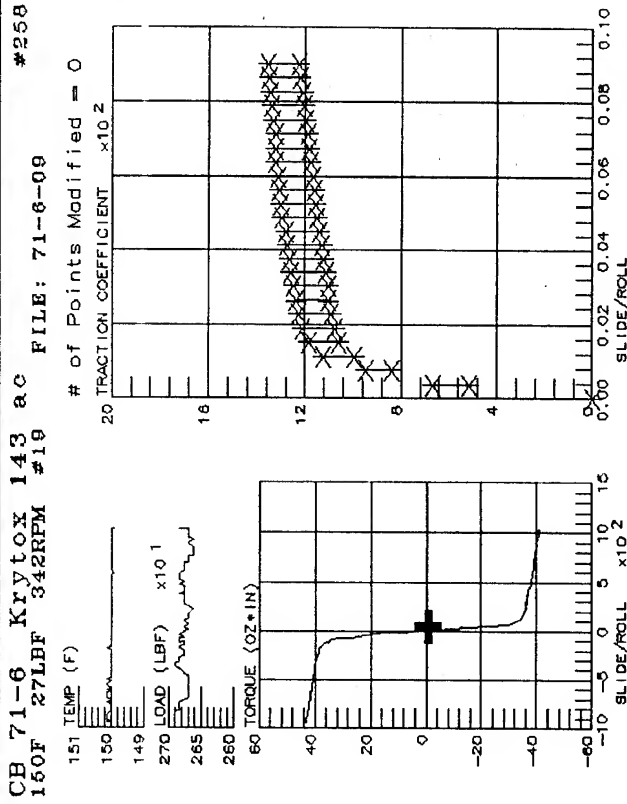
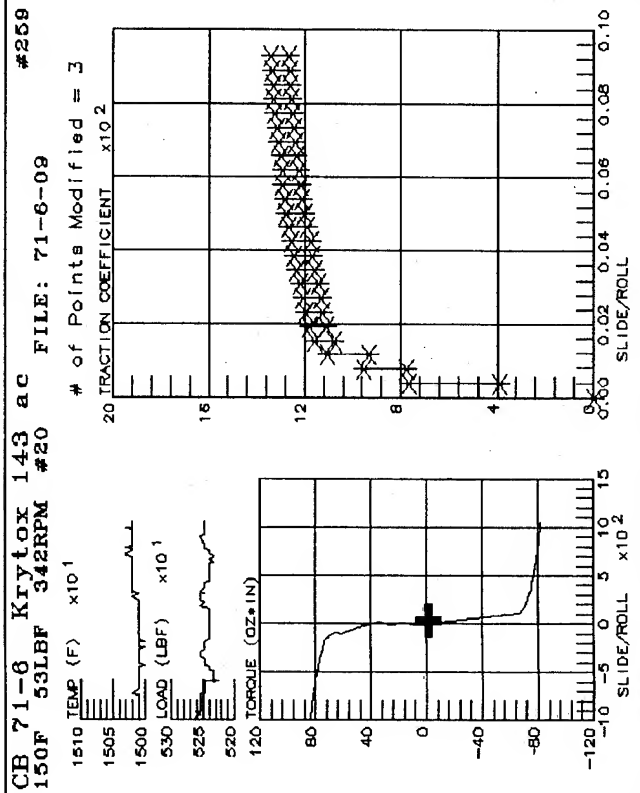
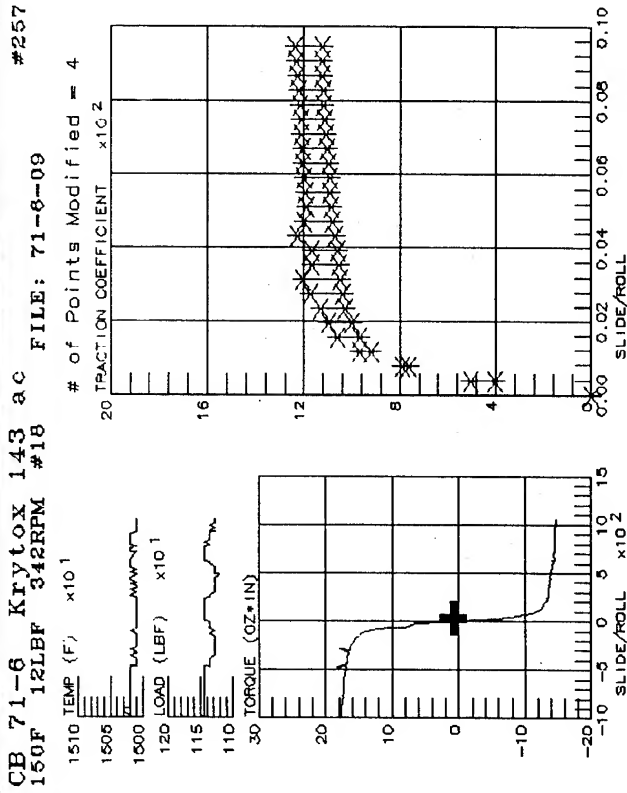
#256

FILE: 71-6-09

of Points Modified = 4

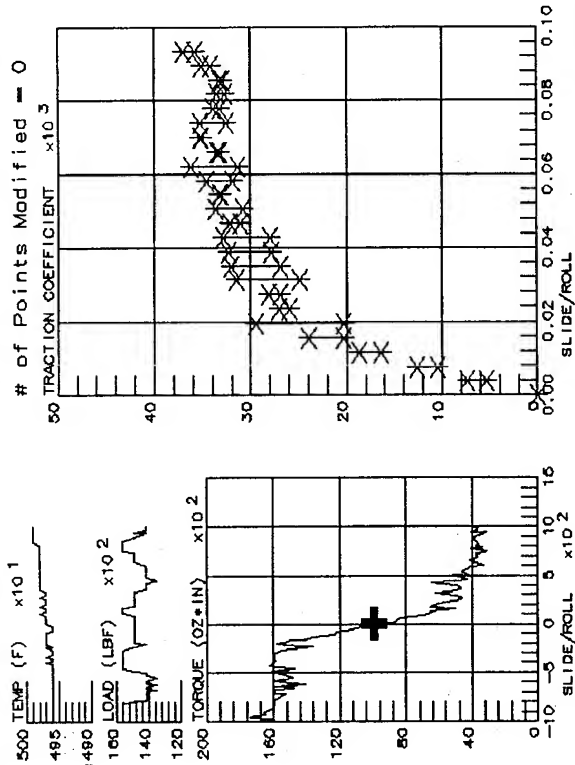


TRACTION DATA

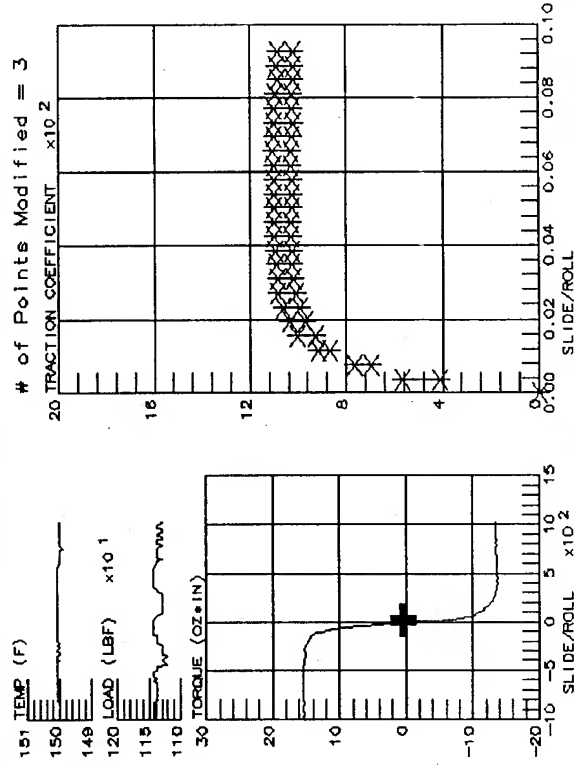


TRACTION DATA

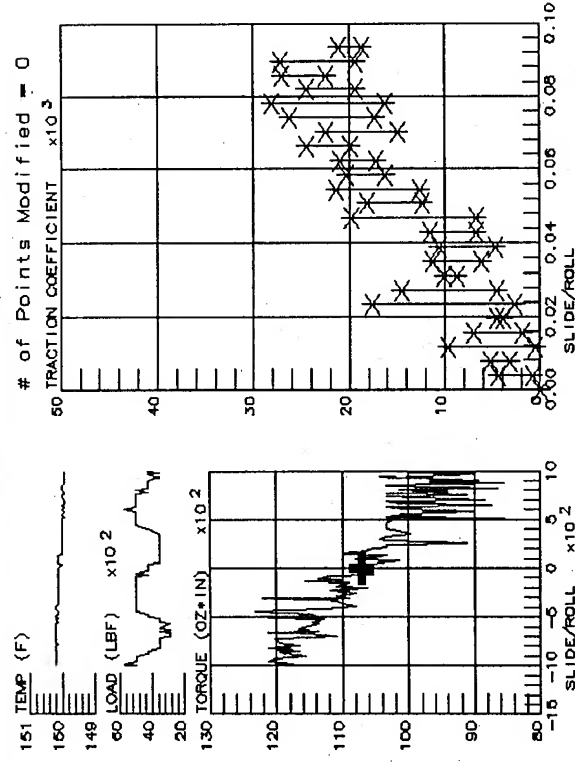
CB 71-6 Krytox 143 ac FILE: 71-6-09 #262
150F 2LBF 650RPM #23



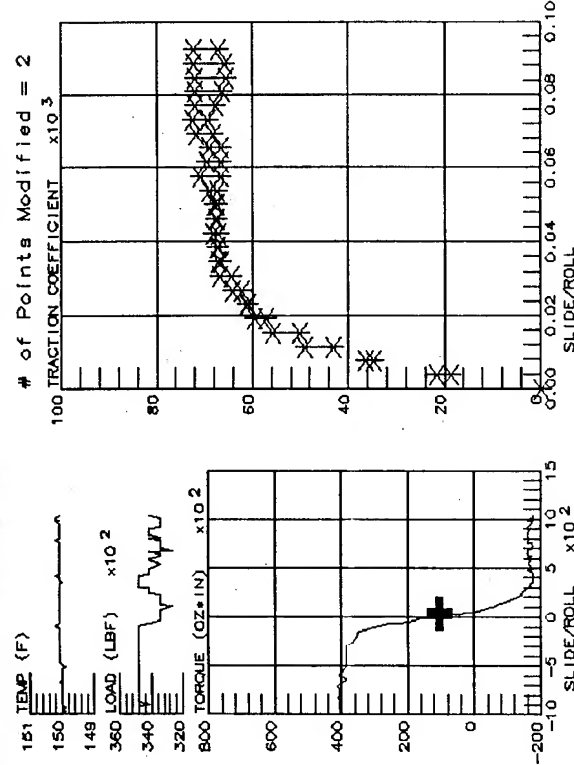
CB 71-6 Krytox 143 ac FILE: 71-6-09 #264
150F 12LBF 650RPM #25



CB 71-6 Krytox 143 ac FILE: 71-6-09 #261
150F 1LBF 650RPM #22

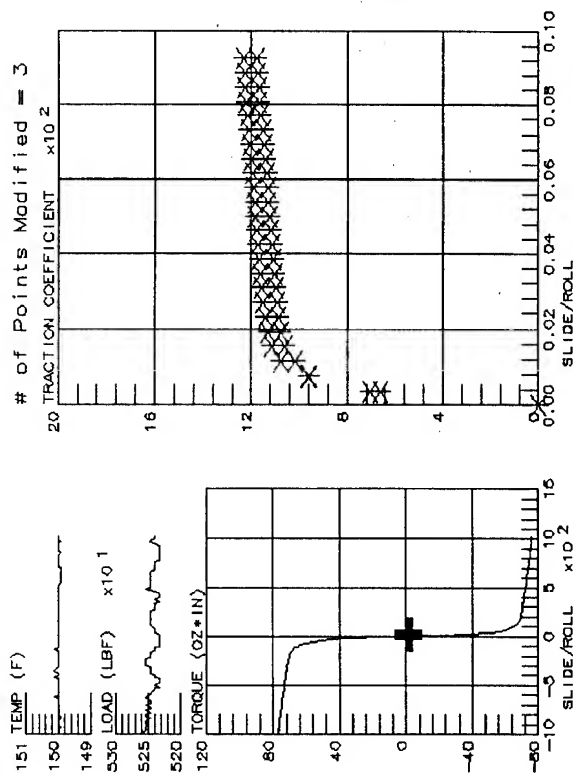


CB 71-6 Krytox 143 ac FILE: 71-6-09 #263
150F 4LBF 650RPM #24



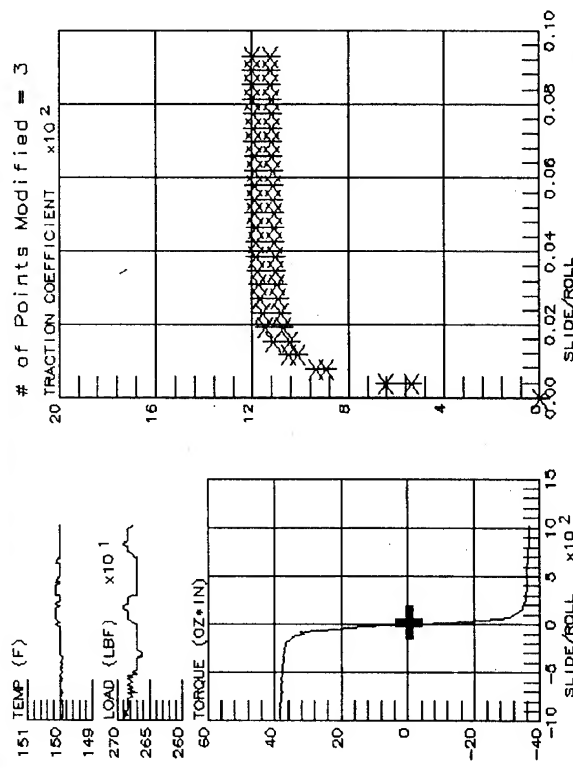
CB 71-6 Krytox 143 ac	#285	CB 71-6 Krytox 143 ac	#288
150F 27LBF 650RPM #28	FILE: 71-8-09	150F 53LBF 650RPM #27	FILE: 71-8-09

of Points Modified = 3



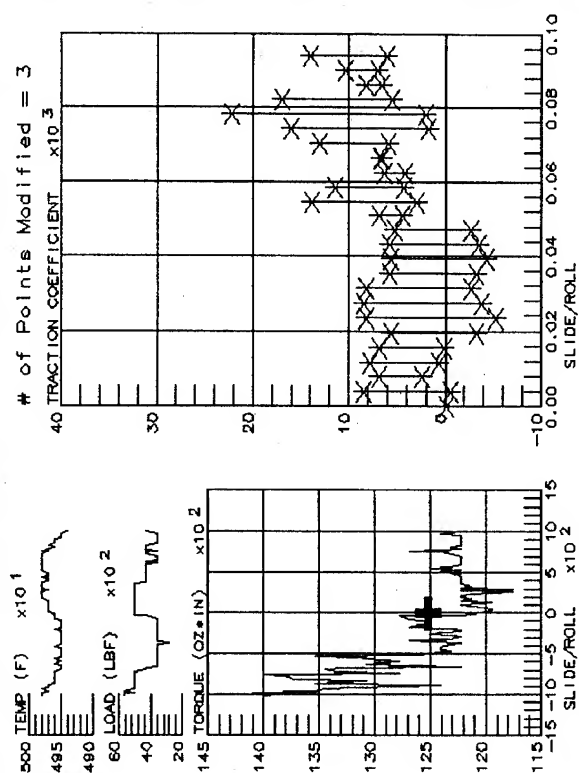
CB 71-6 Krytox 143 ac
150F 27LBF 650RPM #28 FILE: 71-8-09 #2865

of Points Modified = 3



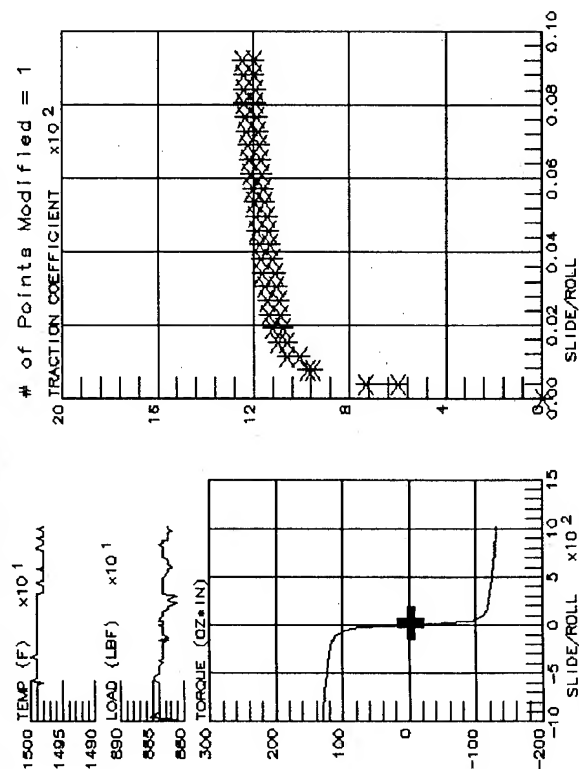
CB 71-6 Krytox 143 ac 150F 11BF 650RPM #28 FILE: 71-6-08	#267
CB 71-6 Krytox 143 ac 150F 11BF 1200RPM #29 FILE: 71-6-09	#268

of Points Modified = 3



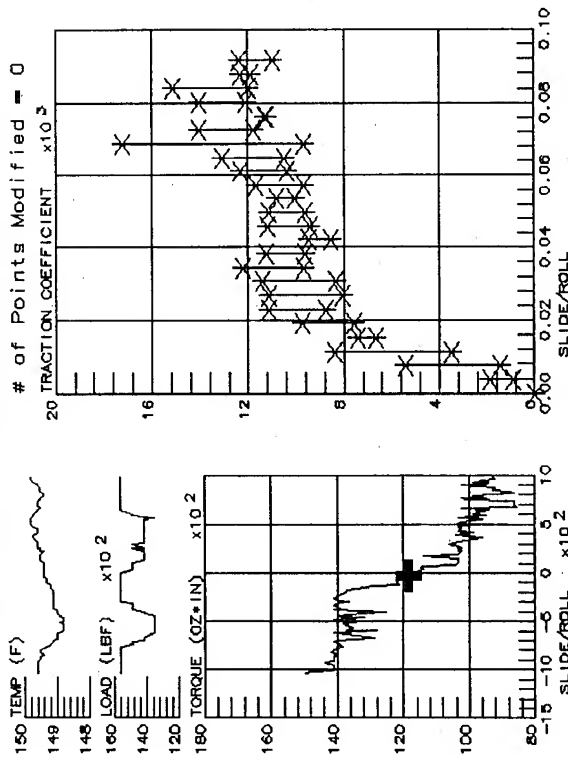
CB 71-6 Krytox 143 ac
150F 89LBF 650RPM #28
FILE: 71-6-08 #267

of Points Modified = 1

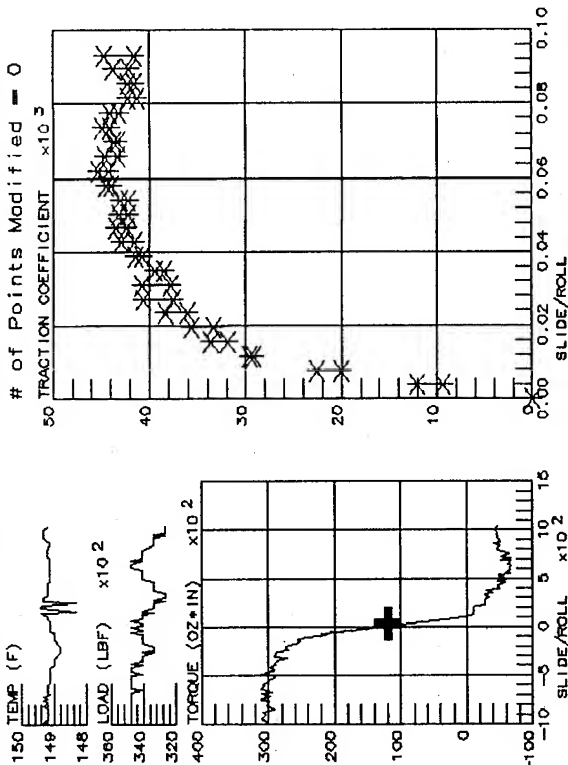


TRACTION DATA

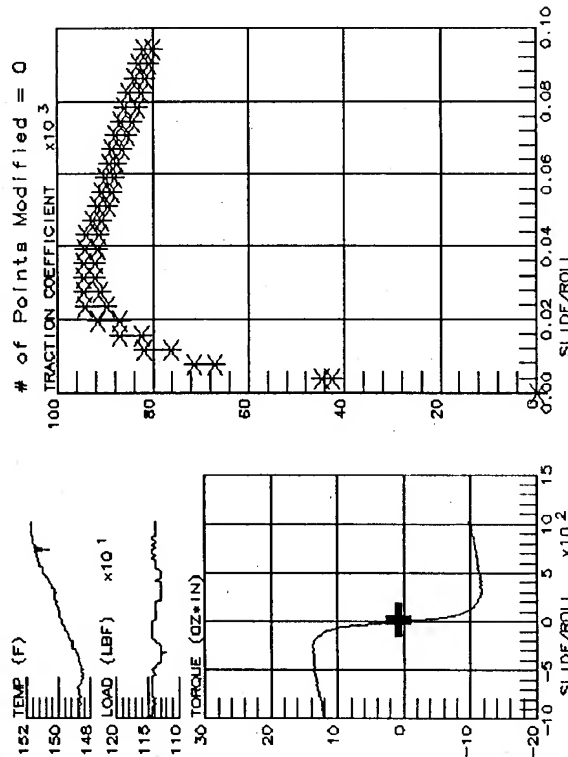
CB 71-6 Krytox 143 ac FILE: 71-6-09 #269
150F 2LBF 1260RPM #30



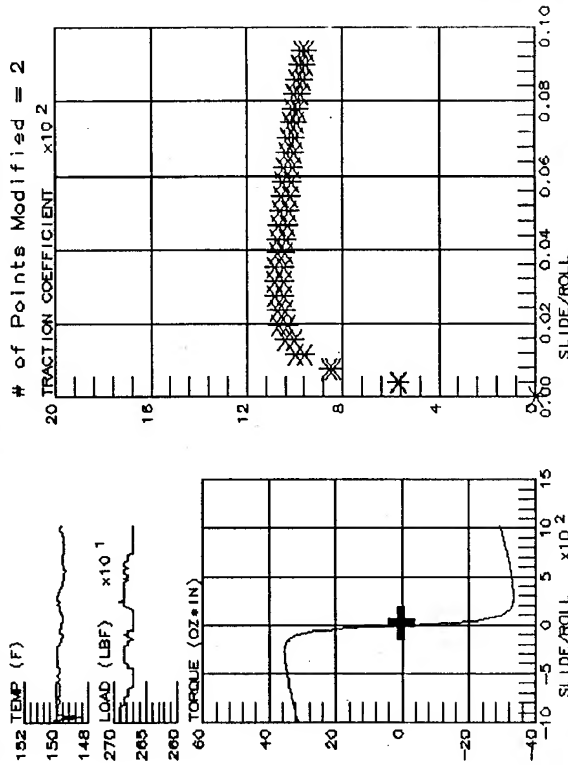
CB 71-6 Krytox 143 ac FILE: 71-6-09 #270
150F 4LBF 1260RPM #31



CB 71-6 Krytox 143 ac FILE: 71-6-09 #271
150F 12LBF 1260RPM #32



CB 71-6 Krytox 143 ac FILE: 71-6-09 #272
150F 27LBF 1260RPM #33

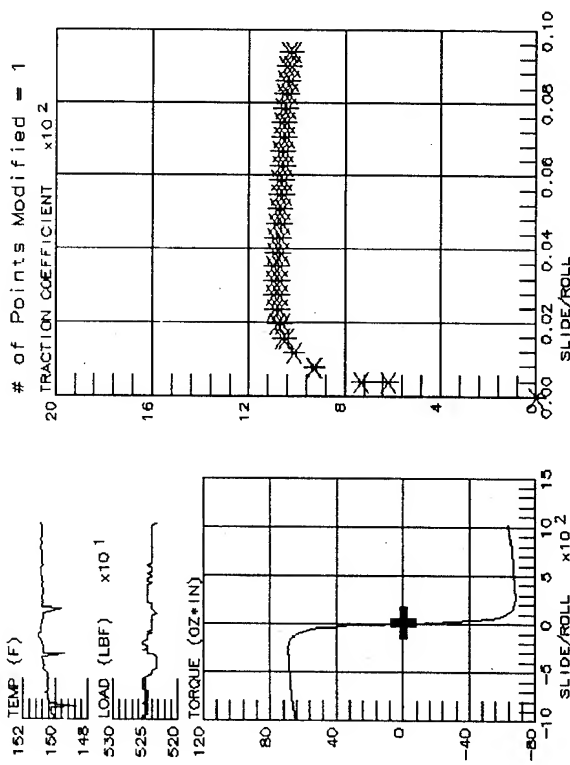


TRACTION DATA

CB 71-6 Krytox 143 ac FILE: 71-6-09 #34

#273

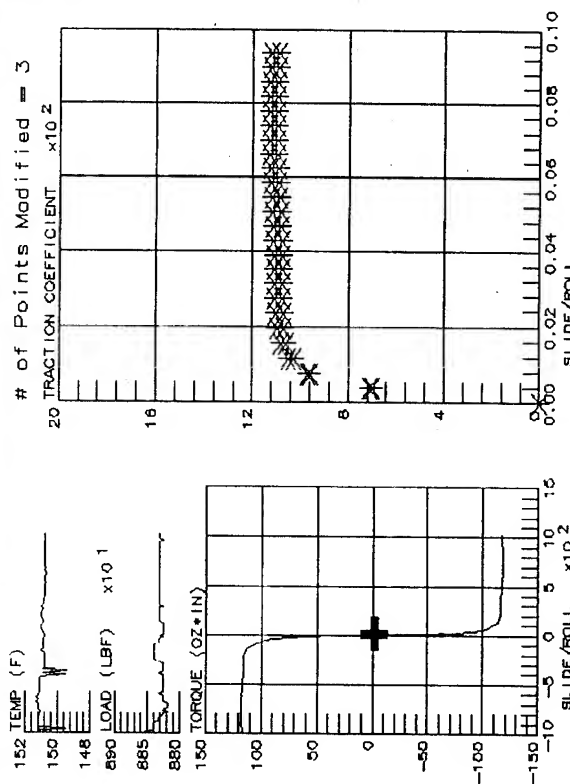
of Points Modified = 1



CB 71-6 Krytox 143 ac FILE: 71-6-09 #35

#274

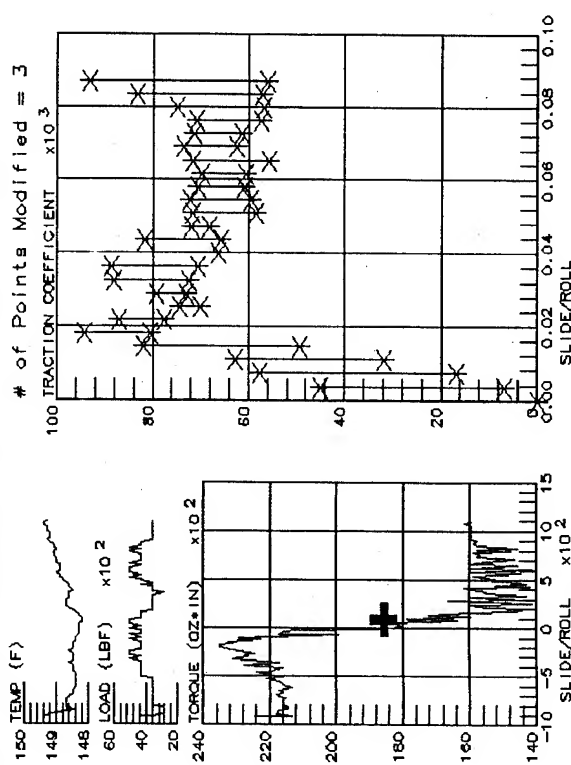
of Points Modified = 3



CB 71-6 Krytox 143 ac FILE: 71-6-09 #36

#275

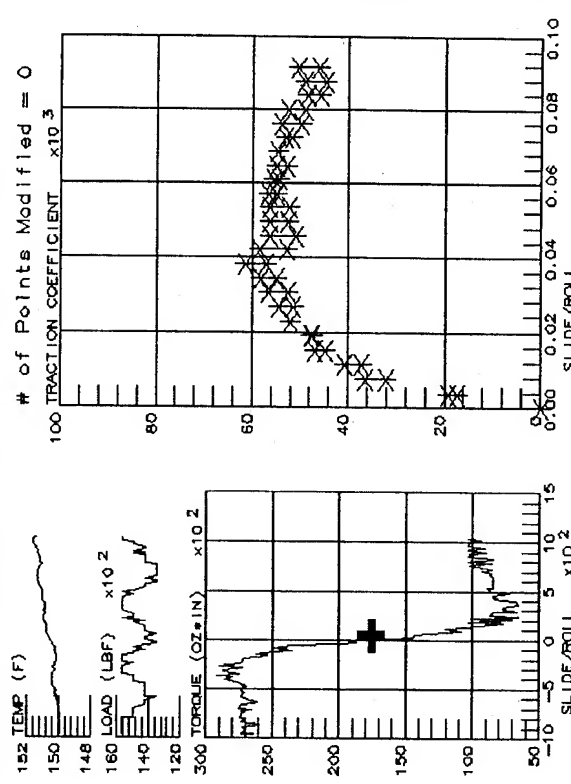
of Points Modified = 3



CB 71-6 Krytox 143 ac FILE: 71-6-09 #37

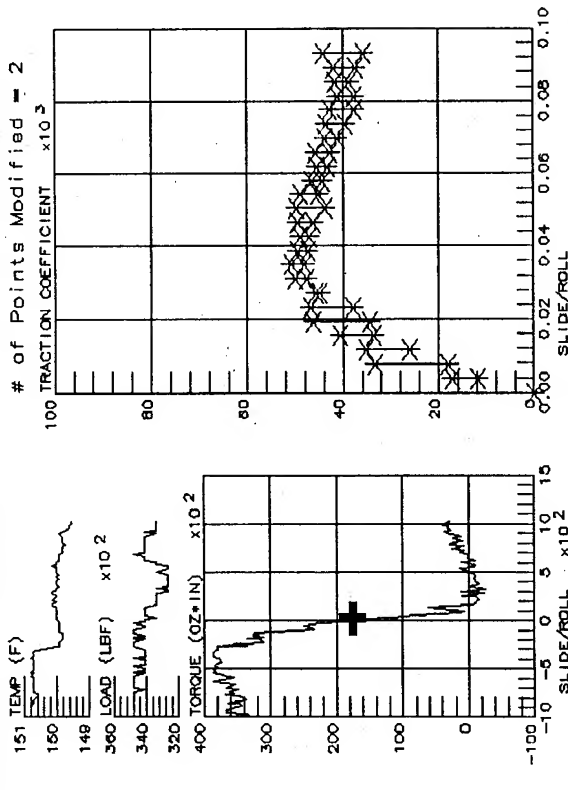
#276

of Points Modified = 0

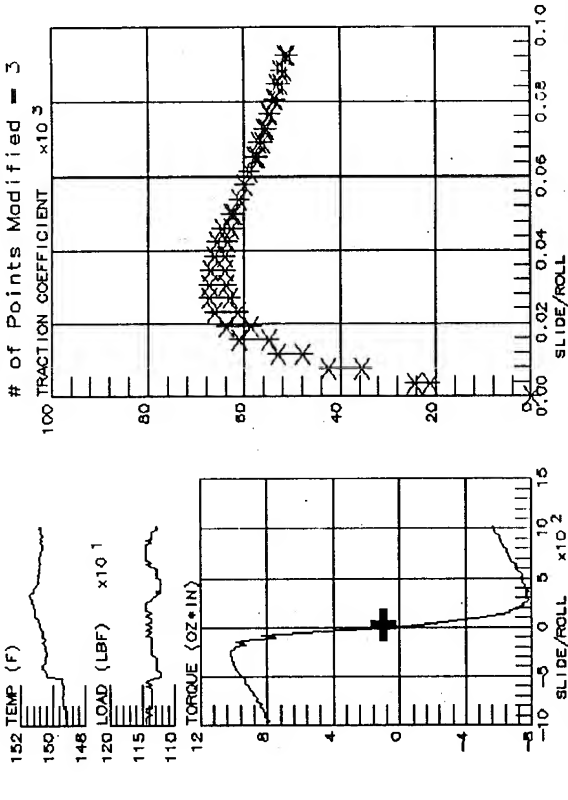


TRACTION DATA

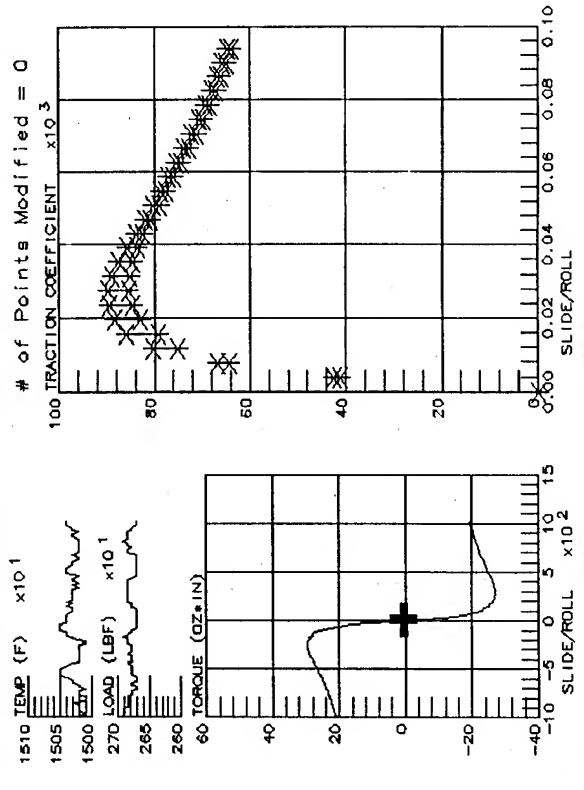
CB 71-6 Krytox 143 ac FILE: 71-6-09
150F 4LBF 2559RPM #38



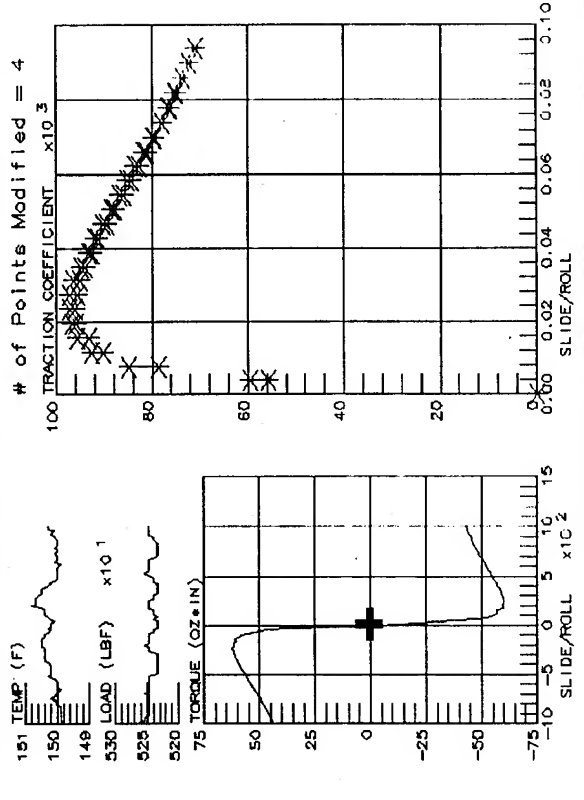
CB 71-6 Krytox 143 ac FILE: 71-6-09
150F 12LBF 2559RPM #39



CB 71-6 Krytox 143 ac FILE: 71-6-09
150F 27LBF 2559RPM #40



CB 71-6 Krytox 143 ac FILE: 71-6-09
150F 53LBF 2559RPM #41

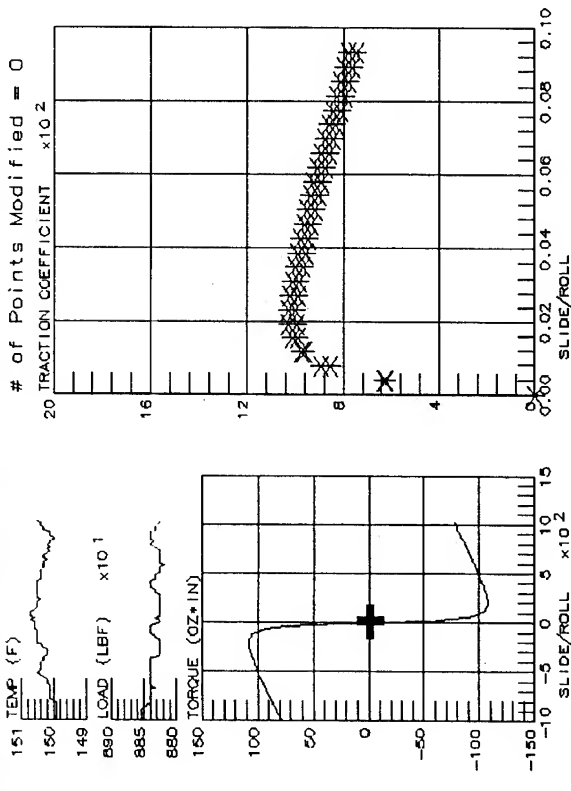


TRACTION DATA

CB 71-6 Krytox 143 ac
150F 89LBF 2559RPM #42

#281

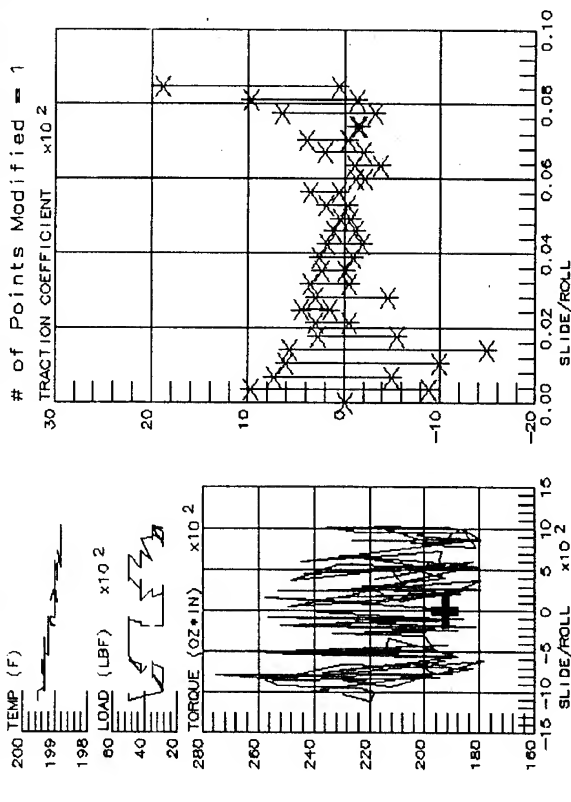
FILE: 71-6-09



CB 71-6 Krytox 143 ac
200F 1LBF 76RPM #1

#282

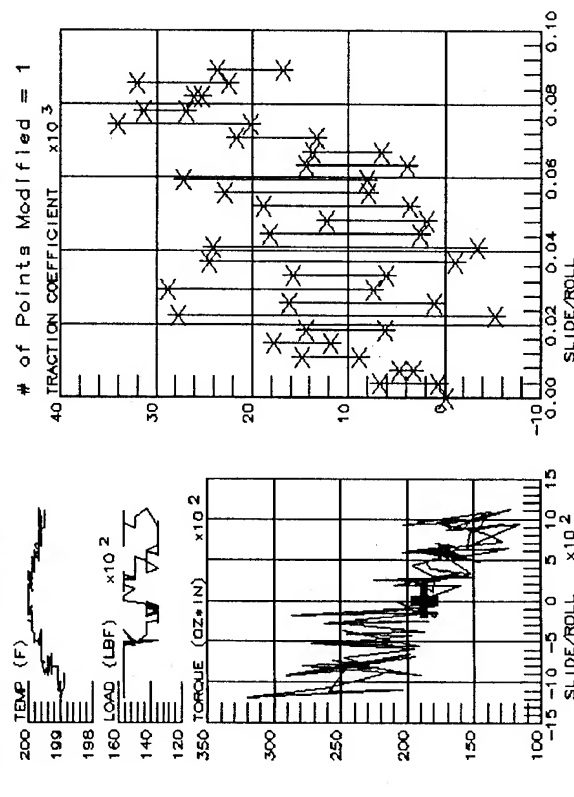
FILE: 71-6-10



CB 71-6 Krytox 143 ac
200F 2LBF 76RPM #2

#283

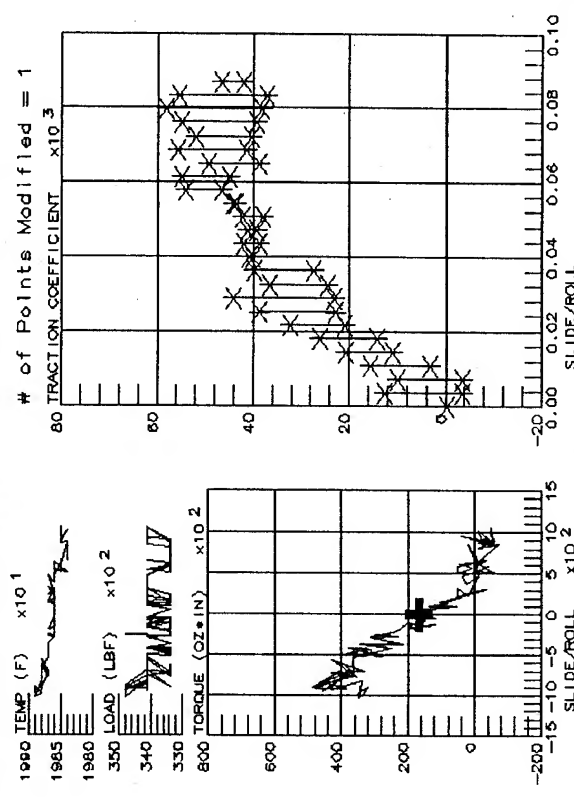
FILE: 71-6-10



CB 71-6 Krytox 143 ac
200F 4LBF 76RPM #3

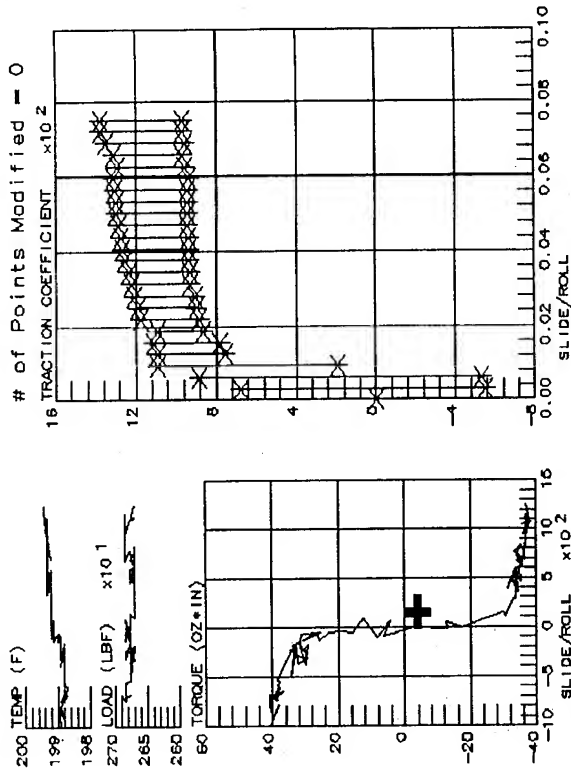
#284

FILE: 71-6-10

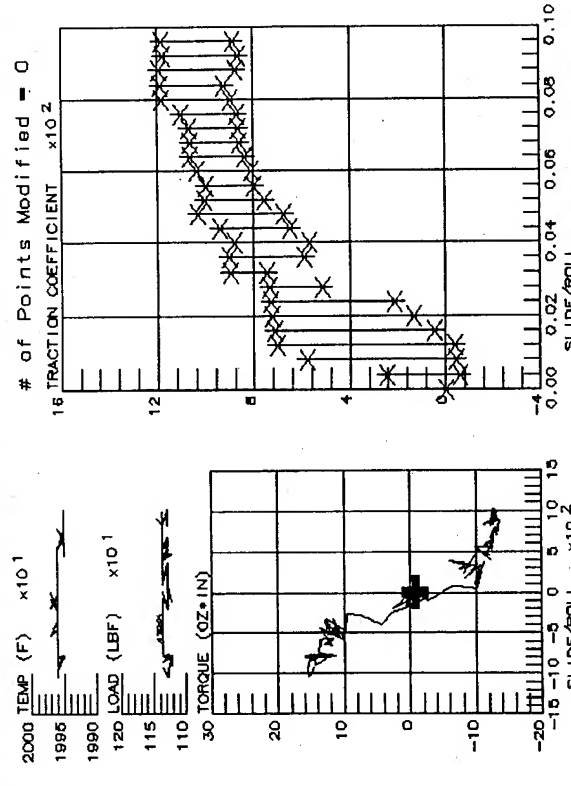


TRACTION DATA

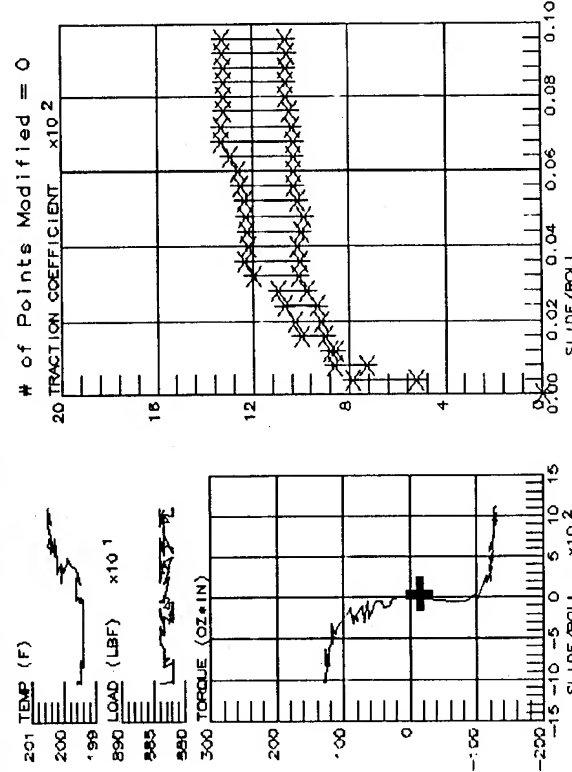
CB 71-6 Krytox 143 ac FILE: 71-6-10 #286
200F 27LBF 76RPM #5



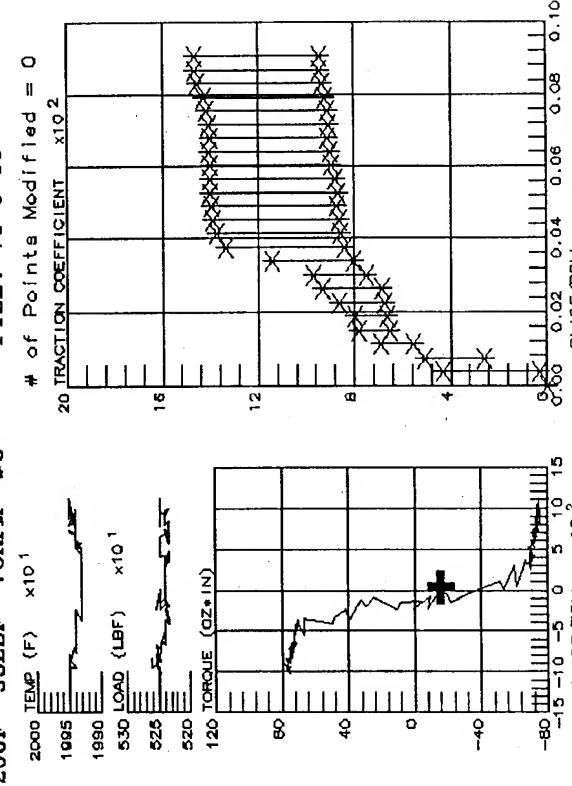
CB 71-6 Krytox 143 ac FILE: 71-6-10 #285
200F 12LBF 76RPM #4



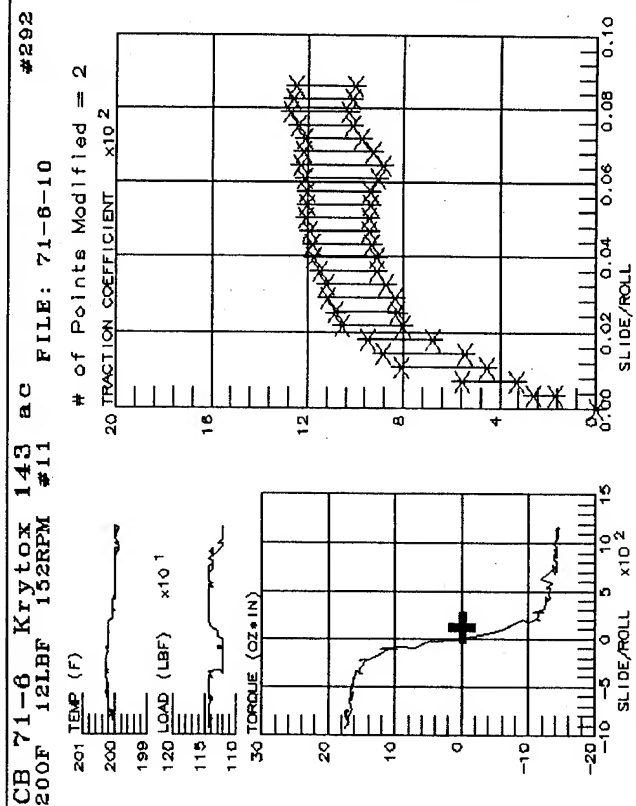
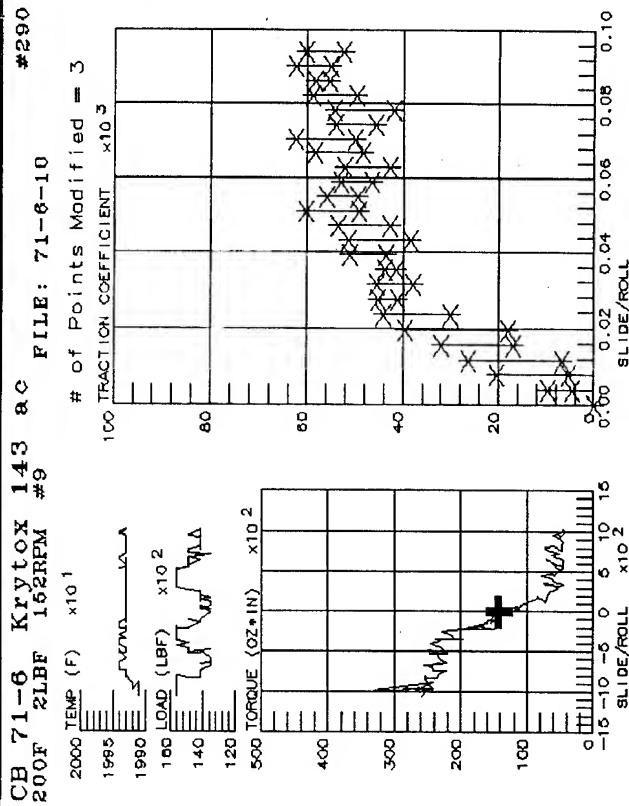
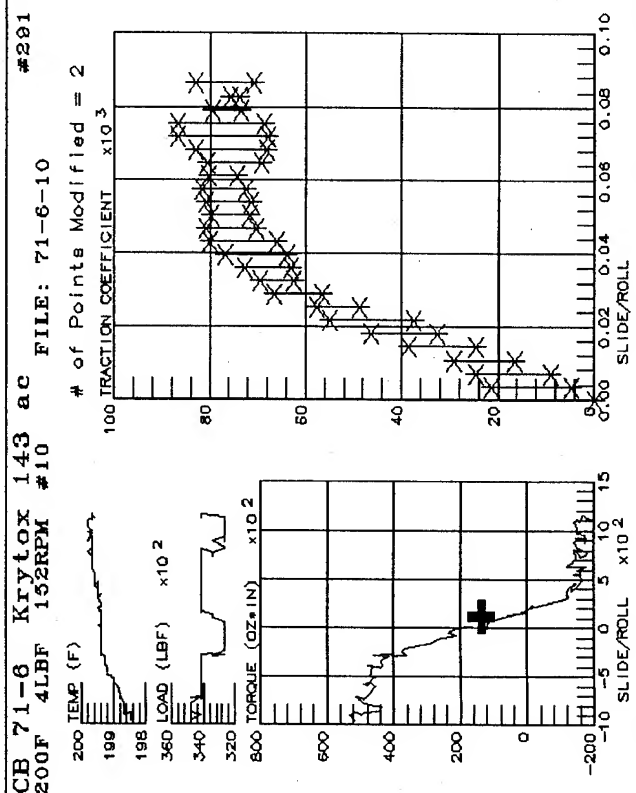
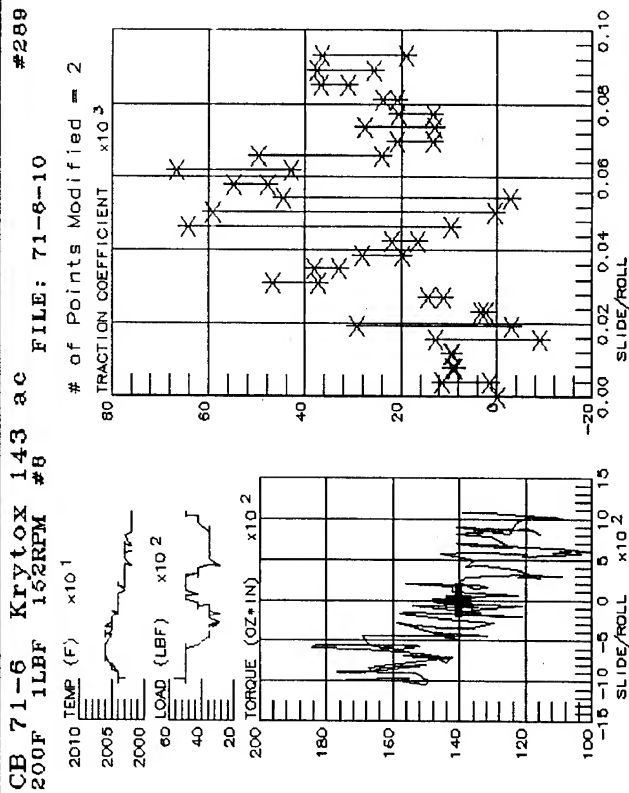
CB 71-6 Krytox 143 ac FILE: 71-6-10 #288
200F 89LBF 76RPM #7



CB 71-6 Krytox 143 ac FILE: 71-6-10 #287
200F 53LBF 76RPM #6

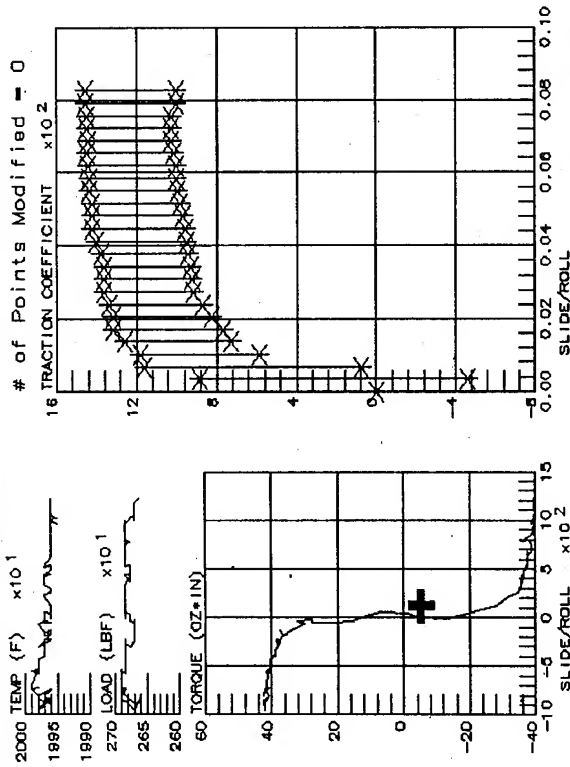


TRACTION DATA

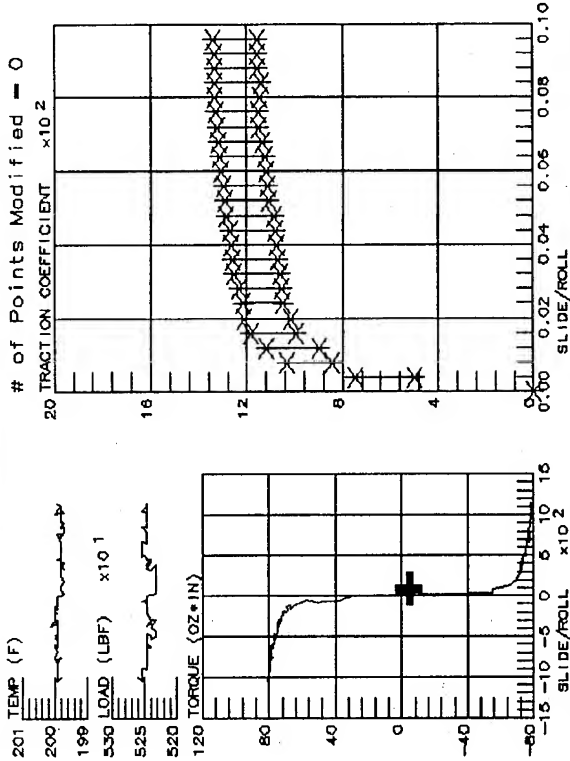


TRACTION DATA

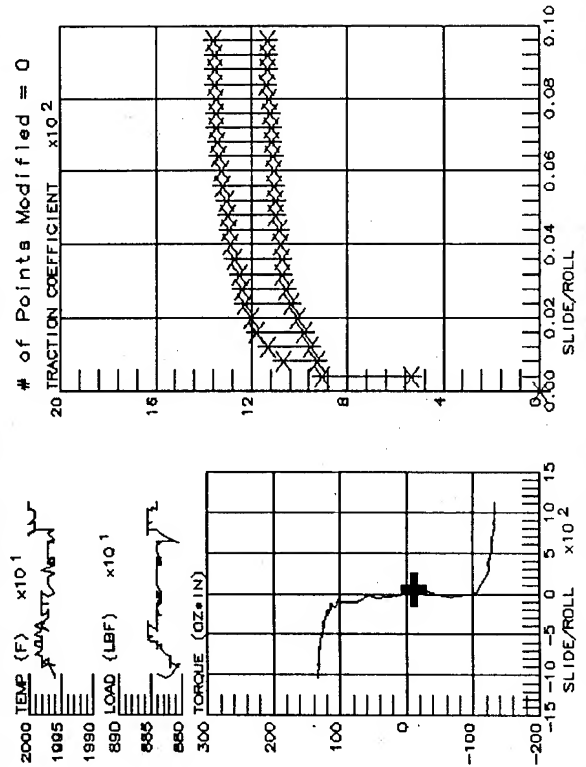
CB 71-6 Krytox 143 ac FILE: 71-6-10 #293
200F 27LBF 152RPM #12



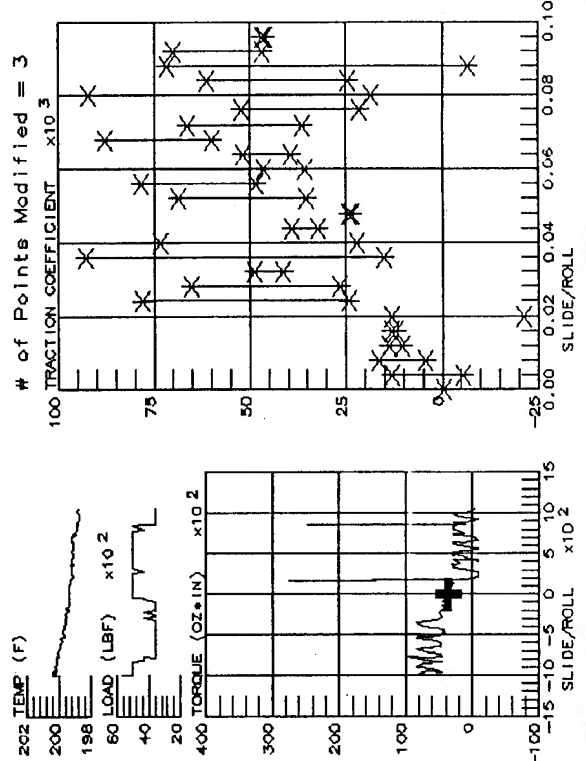
CB 71-6 Krytox 143 ac FILE: 71-6-10 #294
200F 53LBF 152RPM #13



CB 71-6 Krytox 143 ac FILE: 71-6-10 #295
200F 89LBF 152RPM #14

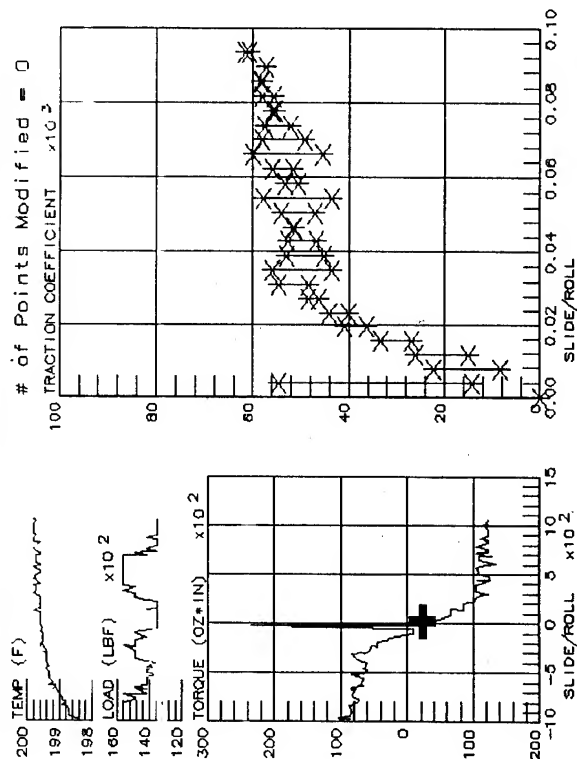


CB 71-6 Krytox 143 ac FILE: 71-6-10 #296
200F 11LBF 342RPM #15

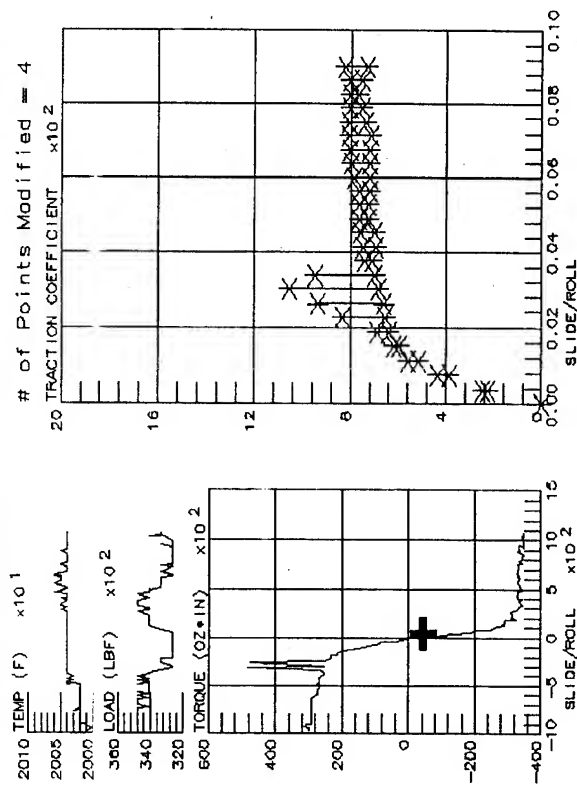


TRACTION DATA

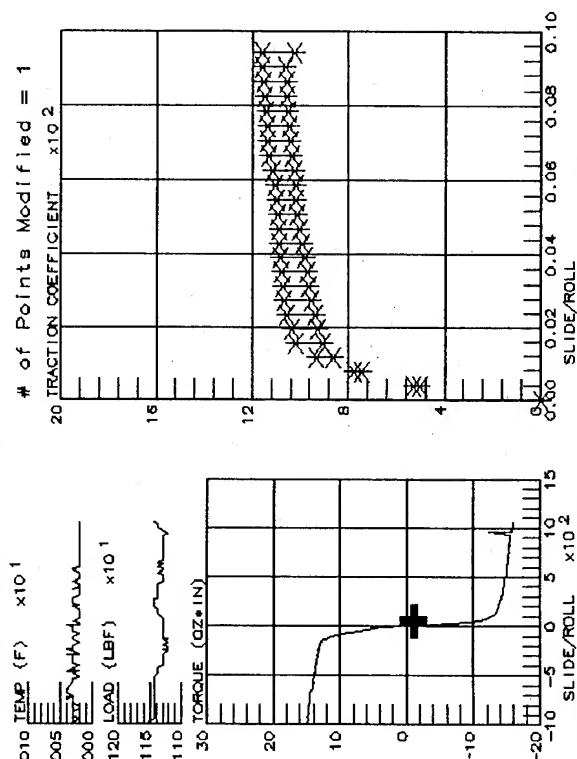
CB 71-6 Krytox 143 ac FILE: 71-6-10 #297
200F 2LBF 342RPM #16



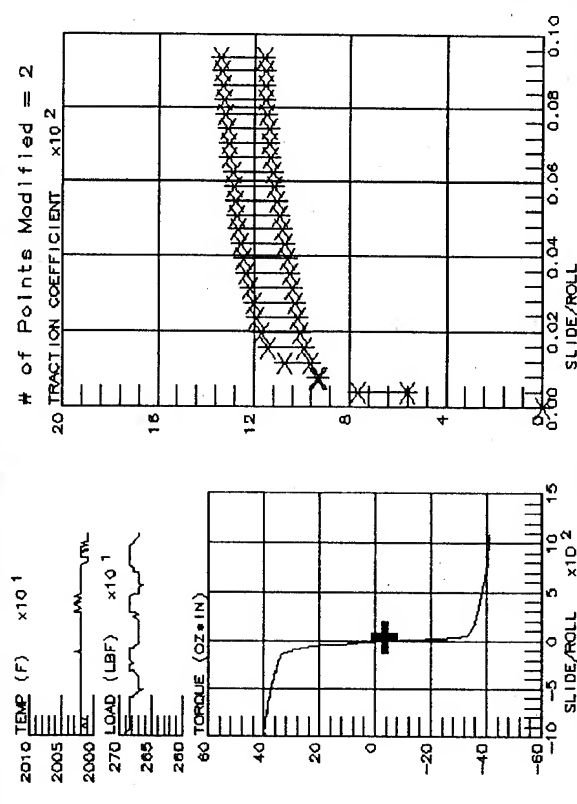
CB 71-6 Krytox 143 ac FILE: 71-6-10 #298
200F 4LBF 342RPM #17



CB 71-6 Krytox 143 ac FILE: 71-6-10 #299
200F 12LBF 342RPM #18

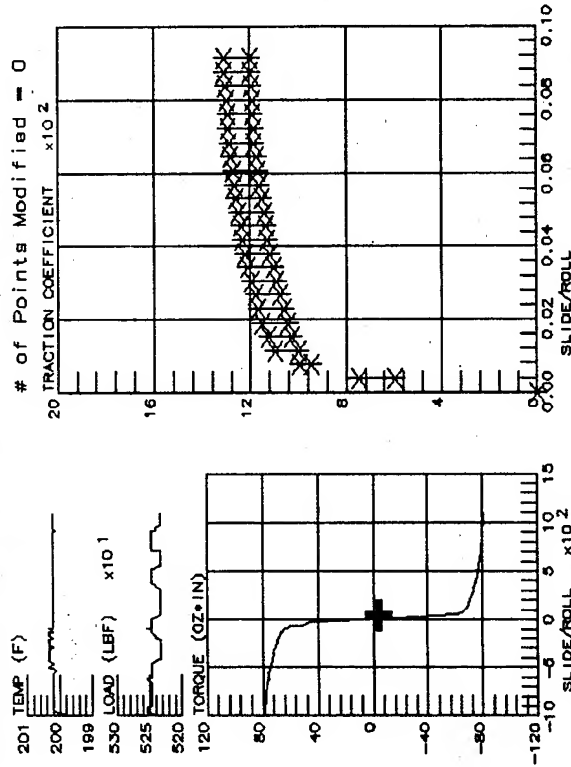


CB 71-6 Krytox 143 ac FILE: 71-6-10 #300
200F 27LBF 342RPM #19

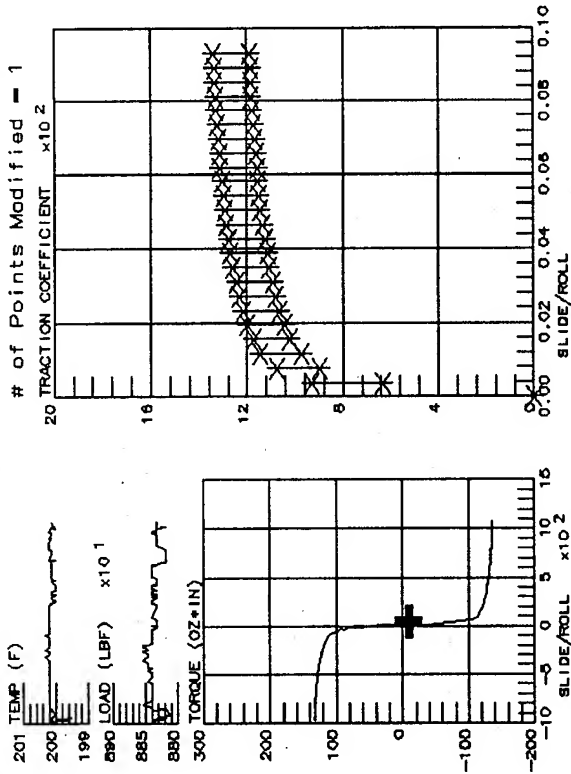


TRACTION DATA

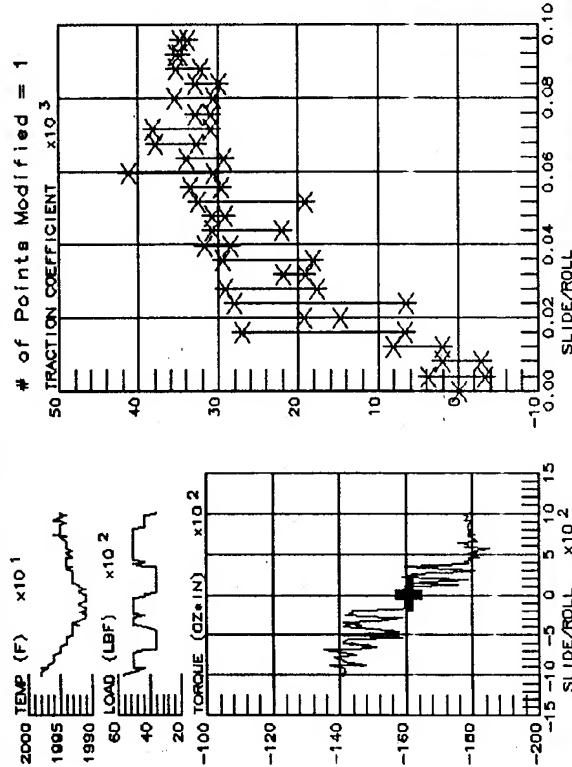
CB 71-6 Krytox 143 ac FILE: 71-6-10 #301
200F 53LBF 342RPM #20



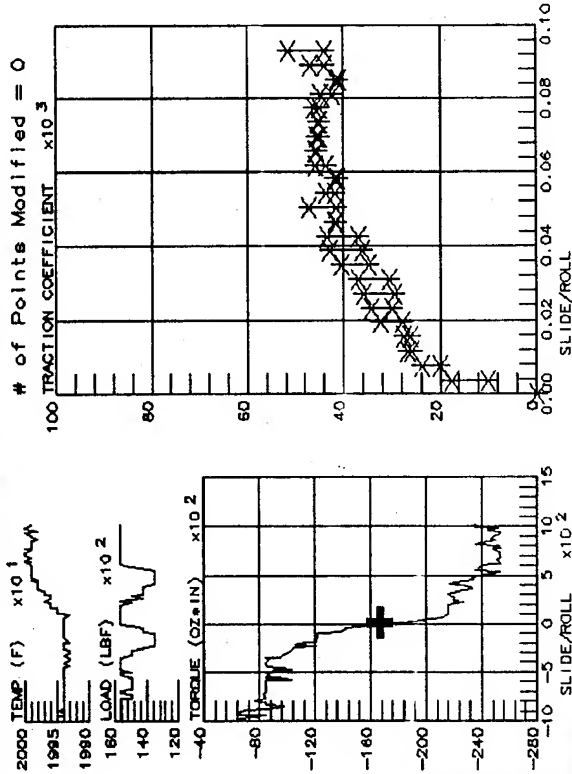
CB 71-6 Krytox 143 ac FILE: 71-6-10 #302
200F 89LBF 342RPM #21



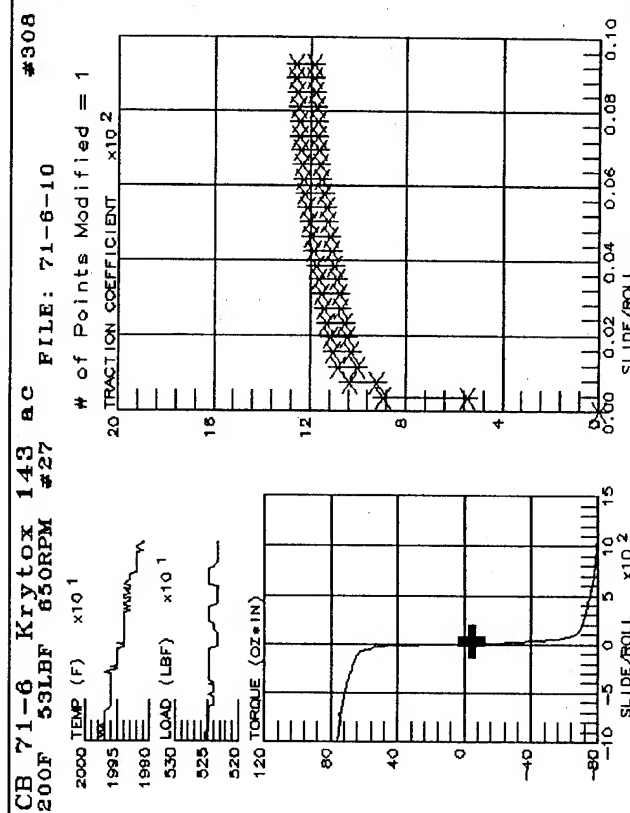
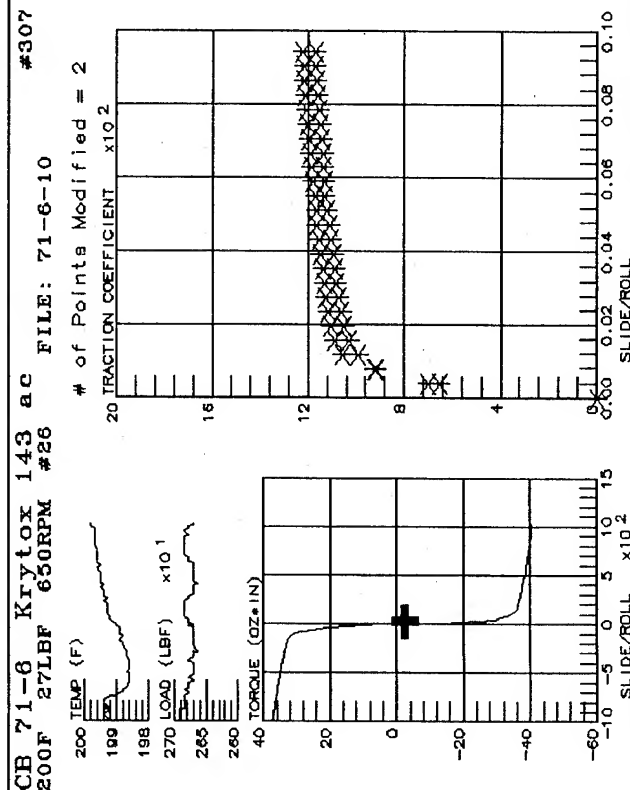
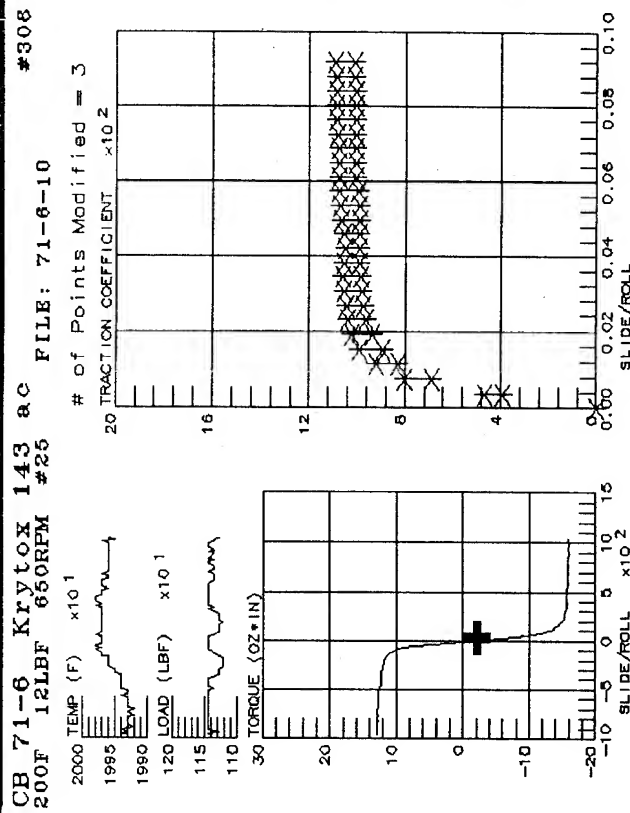
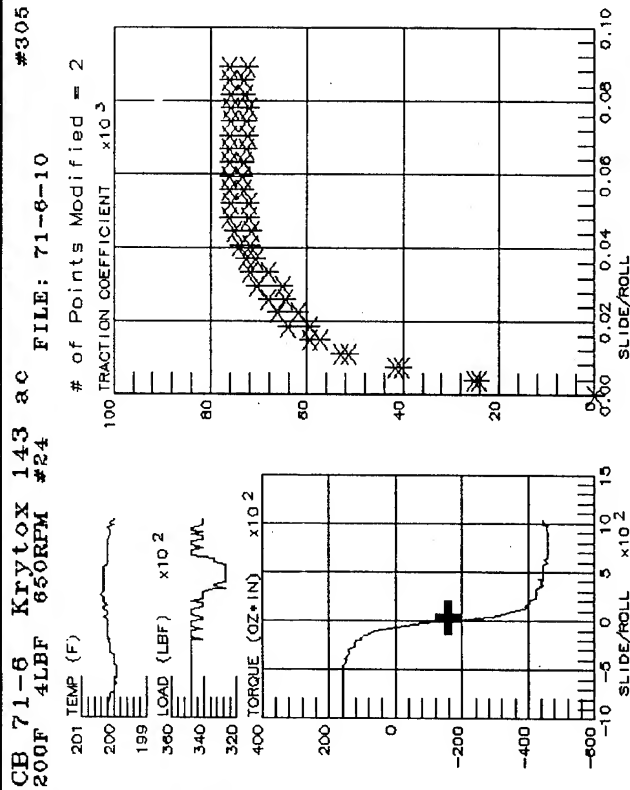
CB 71-6 Krytox 143 ac FILE: 71-6-10 #303
200F 1LB 850RPM #22



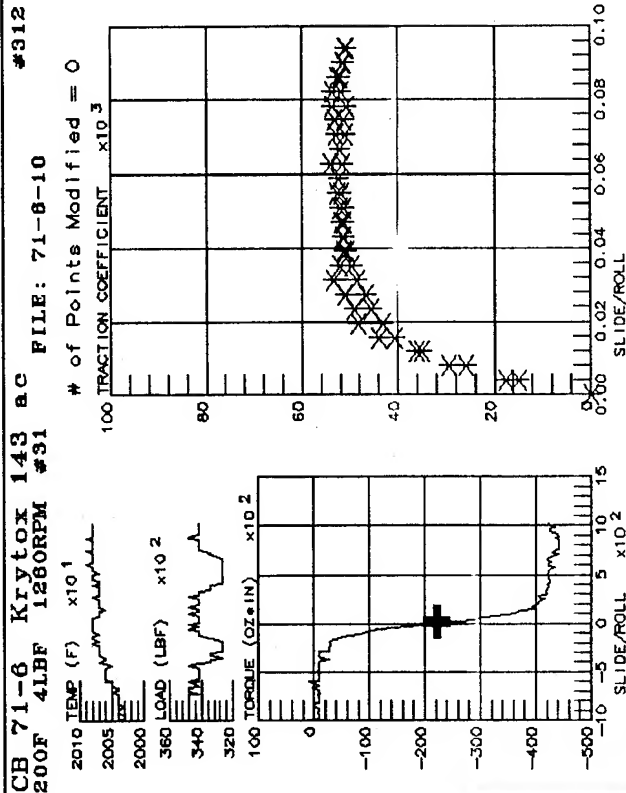
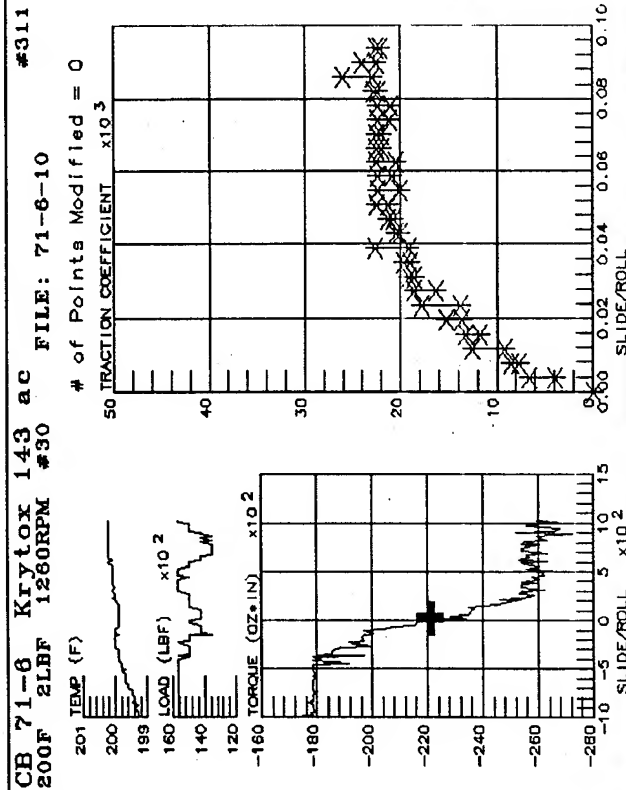
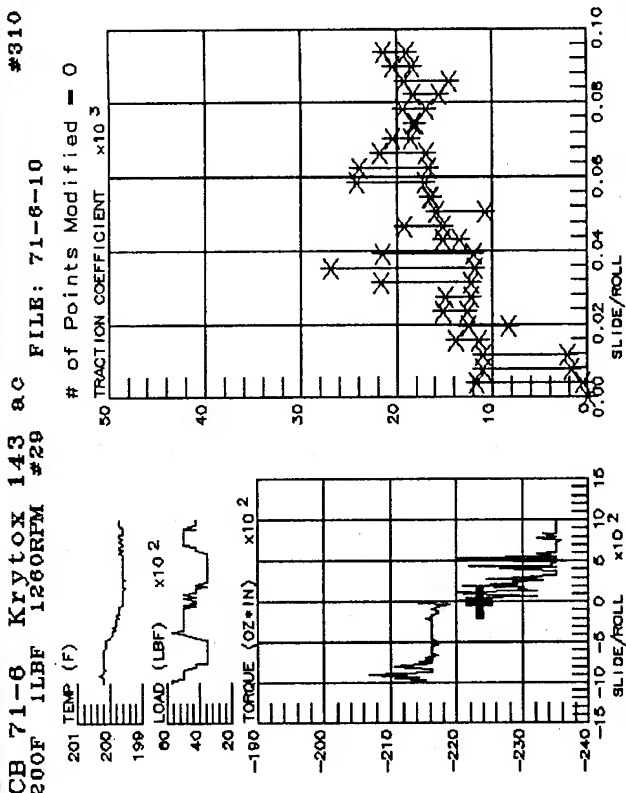
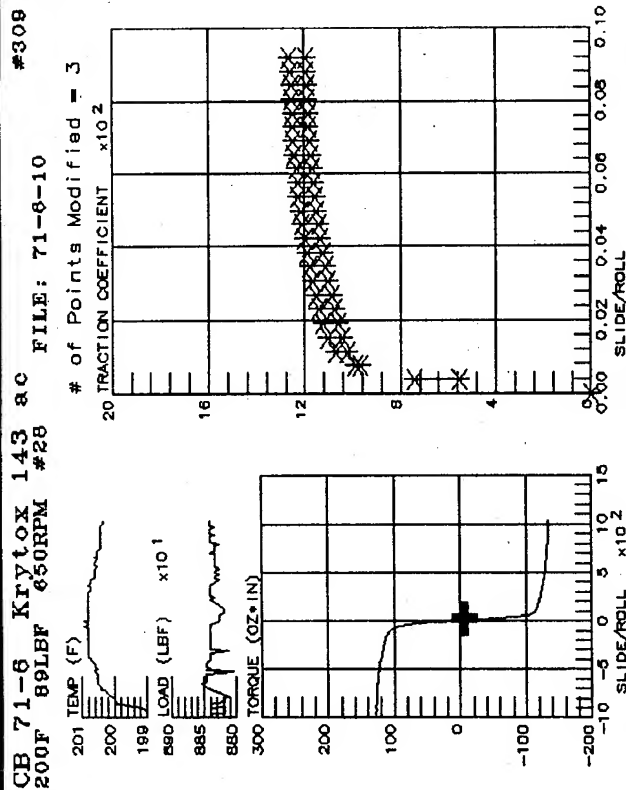
CB 71-6 Krytox 143 ac FILE: 71-6-10 #304
200F 2LB 650RPM #23



TRACTION DATA

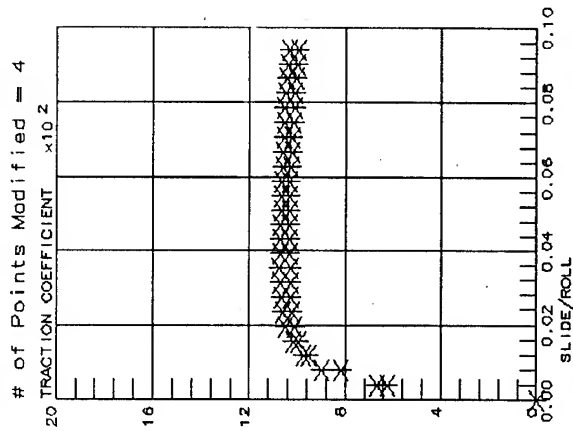
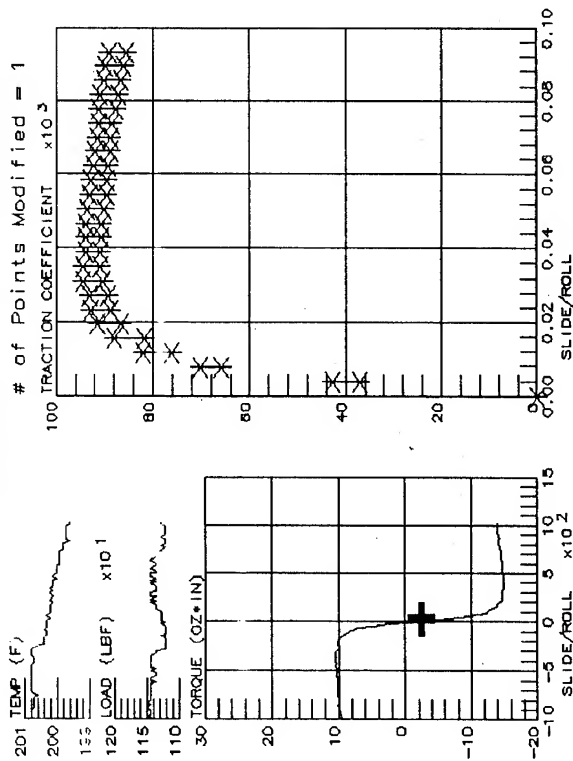


TRACTION DATA

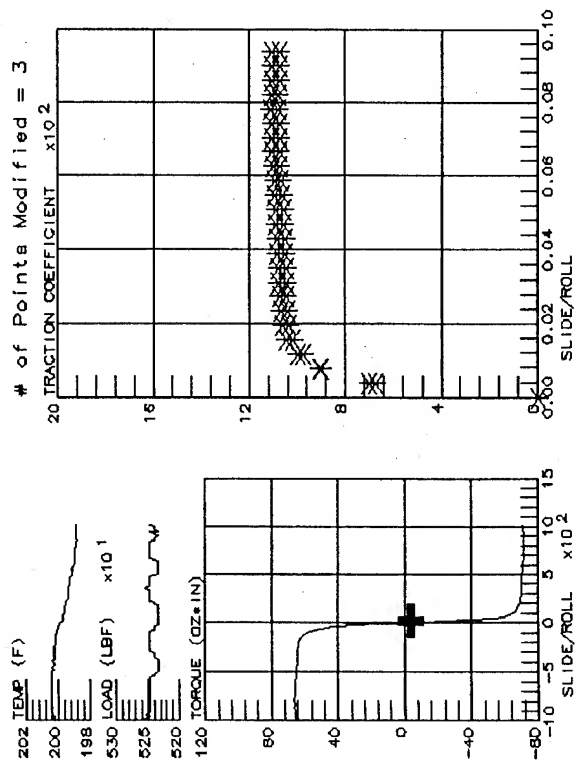


TRACTION DATA

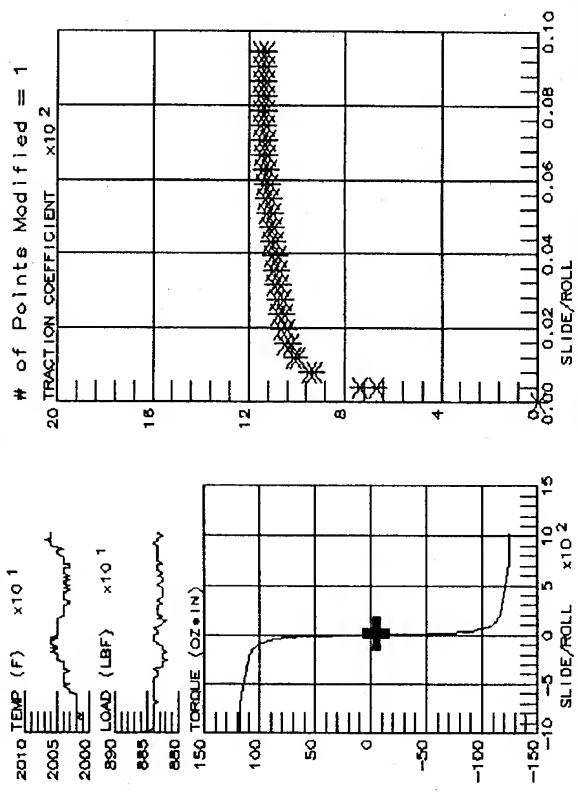
CB 71-6 Krytox 143 ac FILE: 71-6-10 #313
 200F 12LBF 1260RPM #32 # of Points Modified = 1

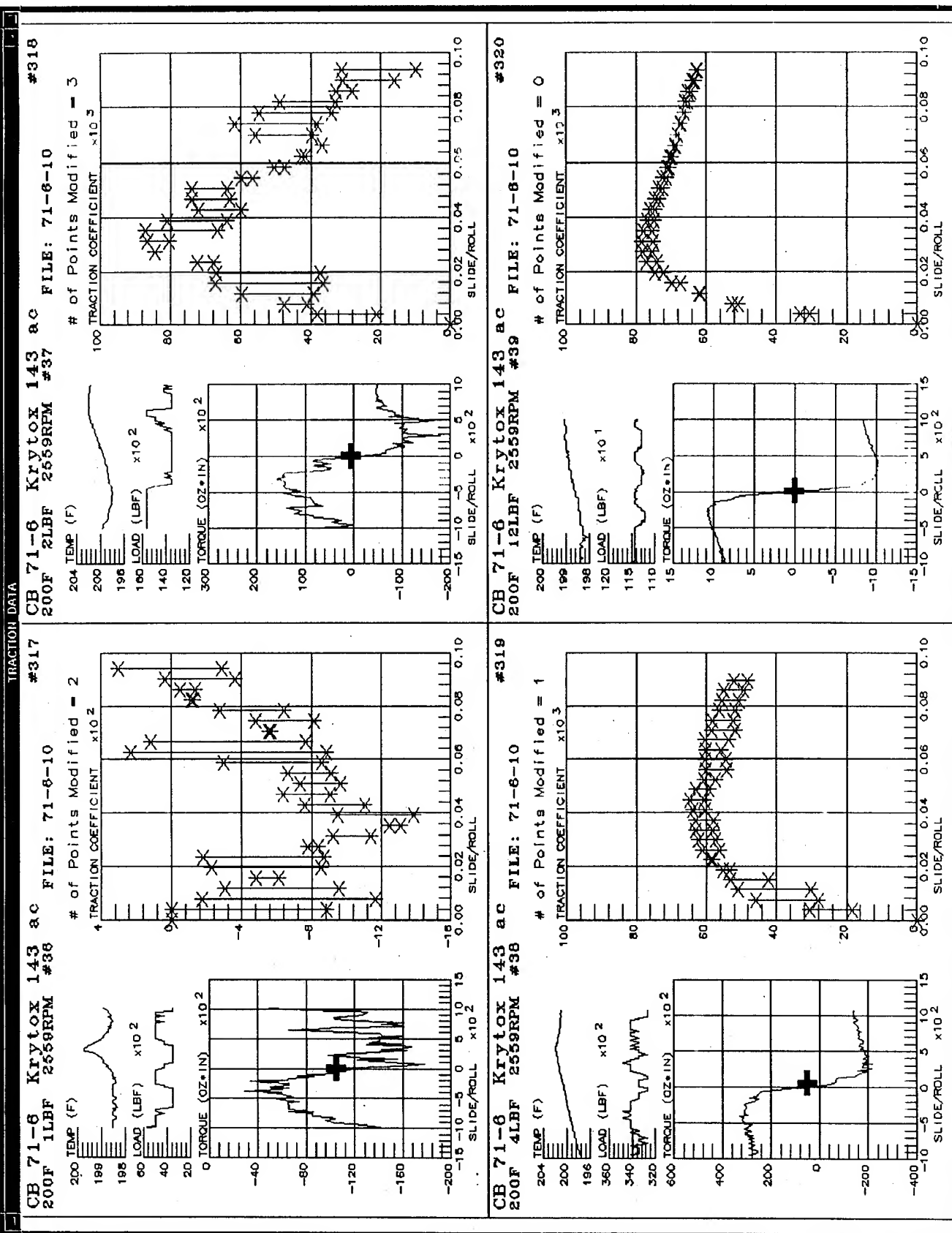


CB 71-6 Krytox 143 ac FILE: 71-6-10 #315
 200F 53LBF 1260RPM #34 # of Points Modified = 3

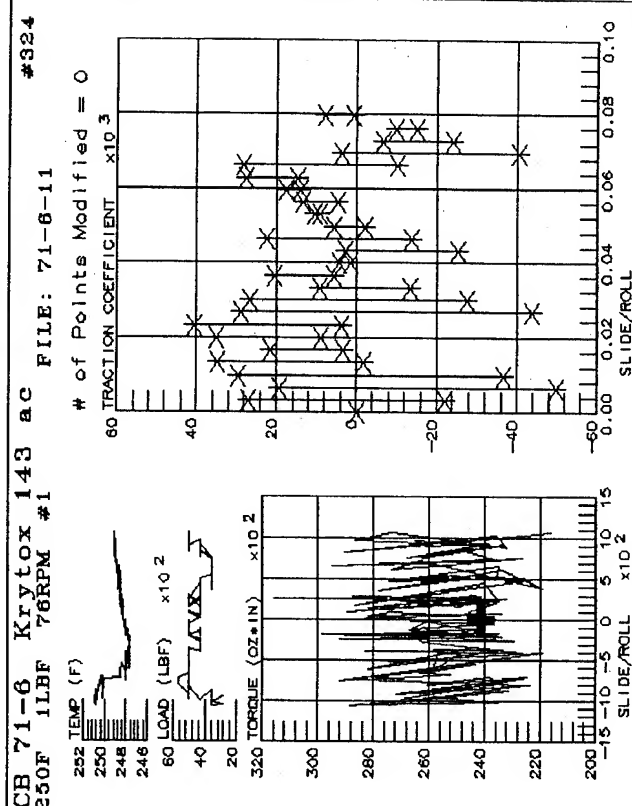
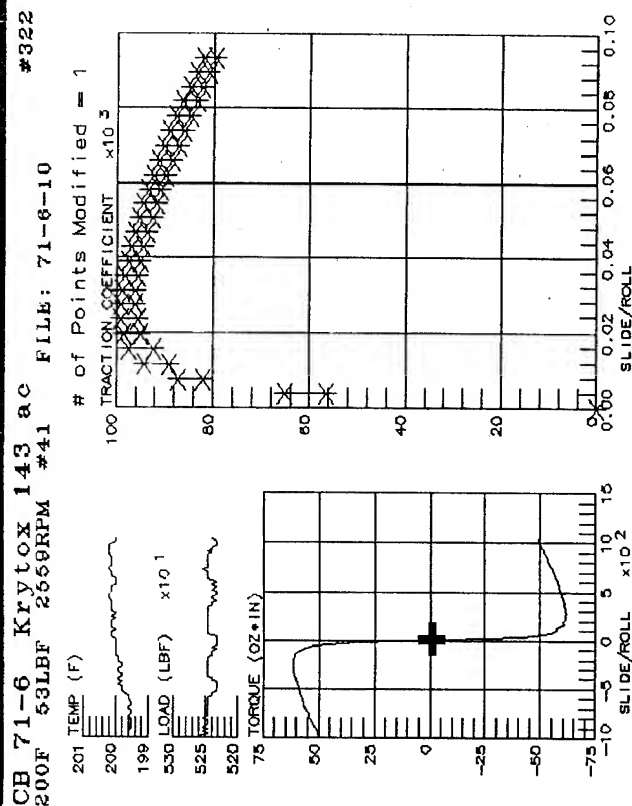
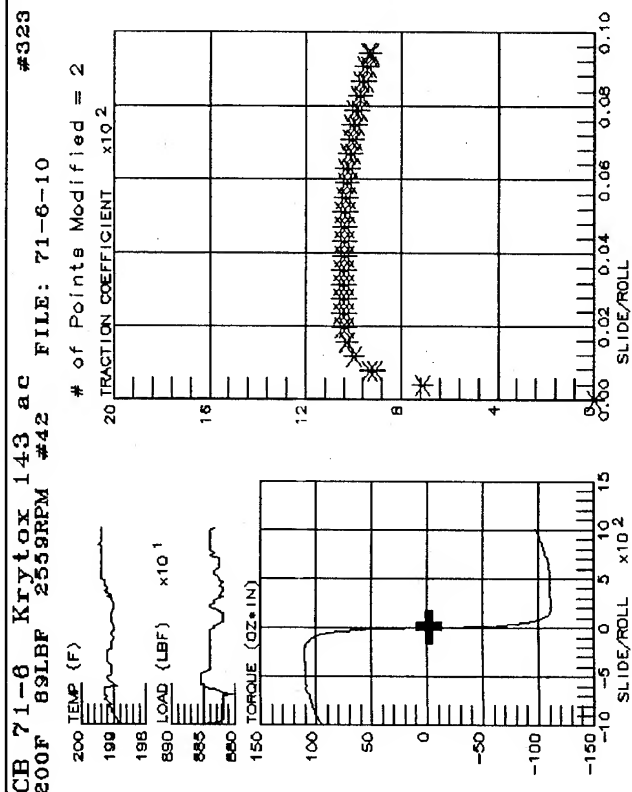
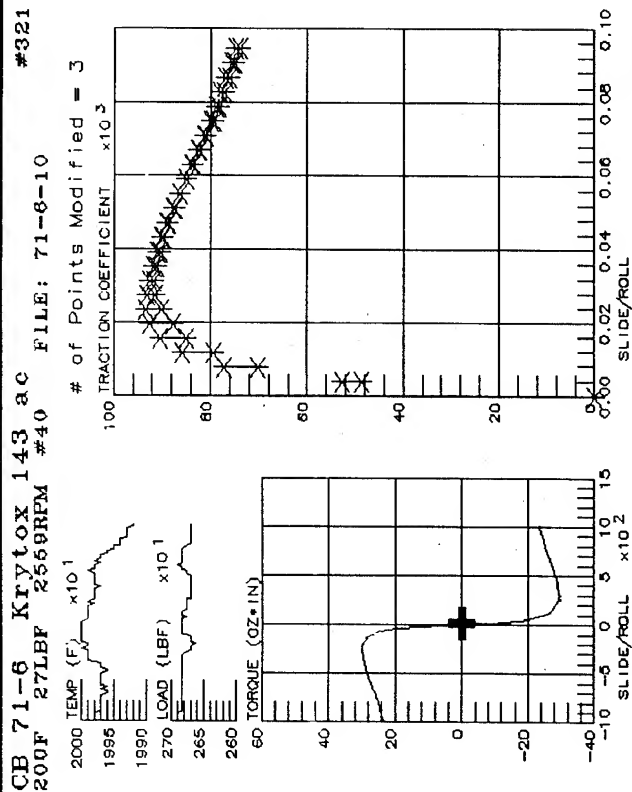


CB 71-6 Krytox 143 ac FILE: 71-6-10 #316
 200F 89LBF 1260RPM #35 # of Points Modified = 1

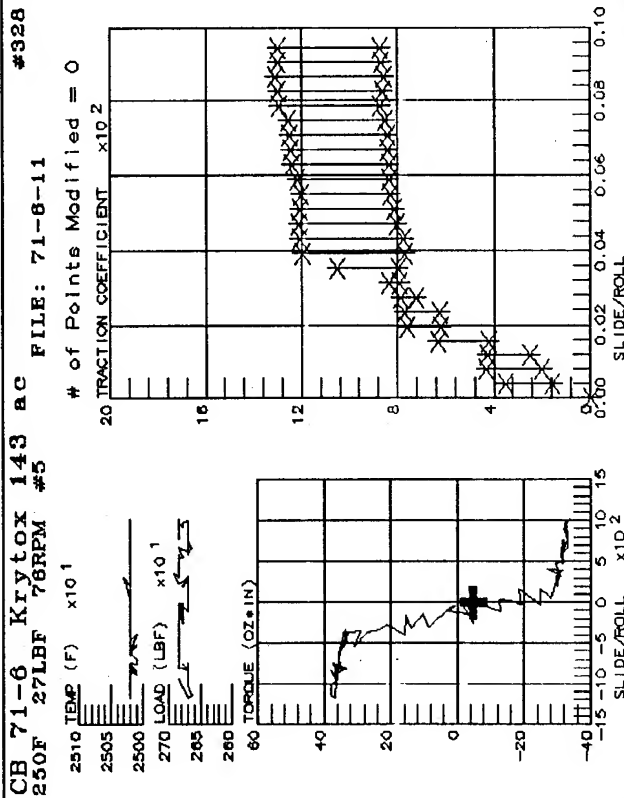
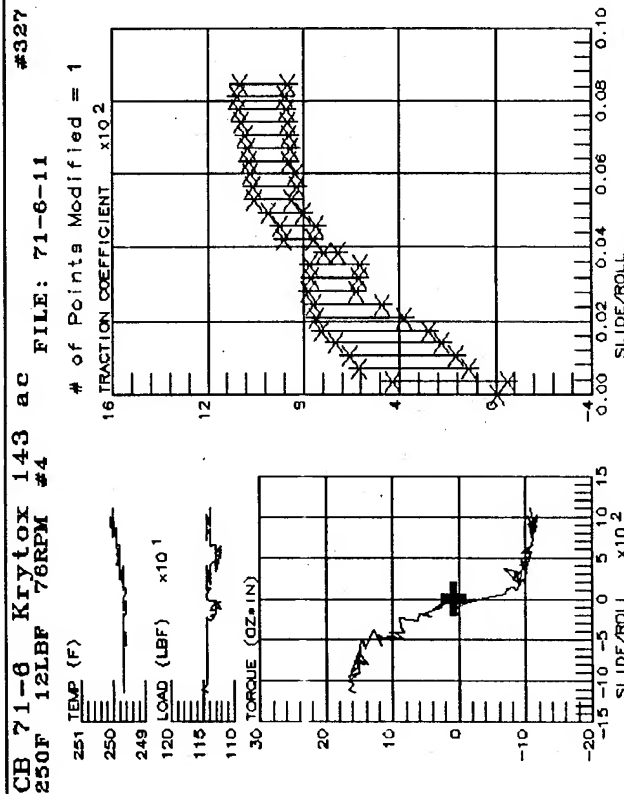
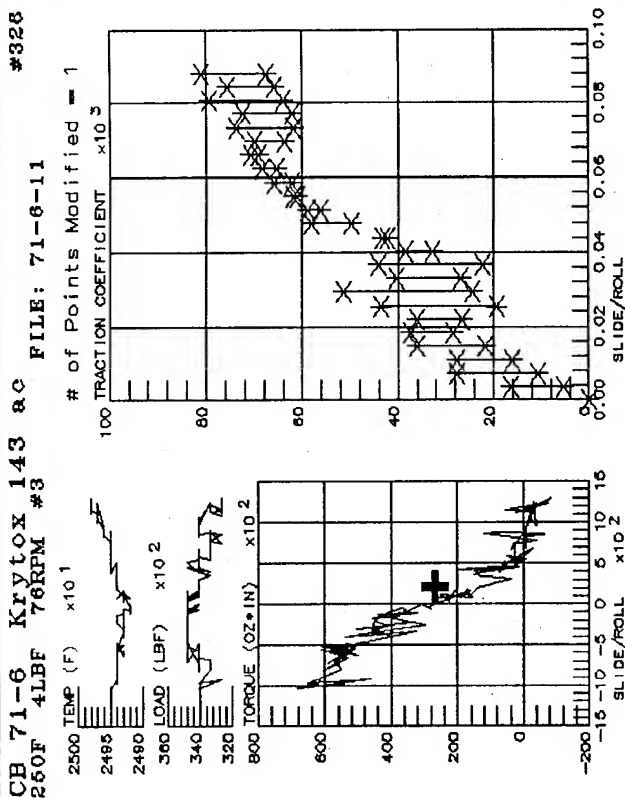
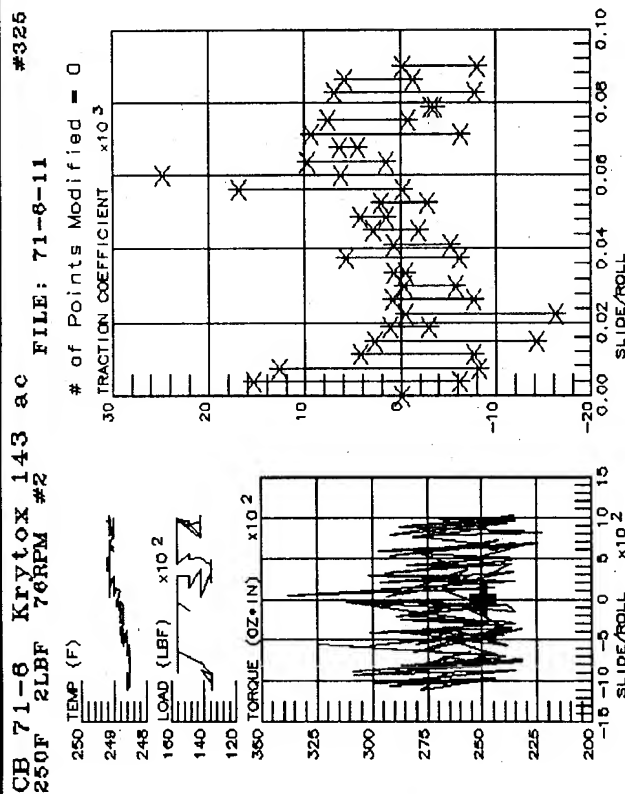




TRACTION DATA



TRACTION DATA

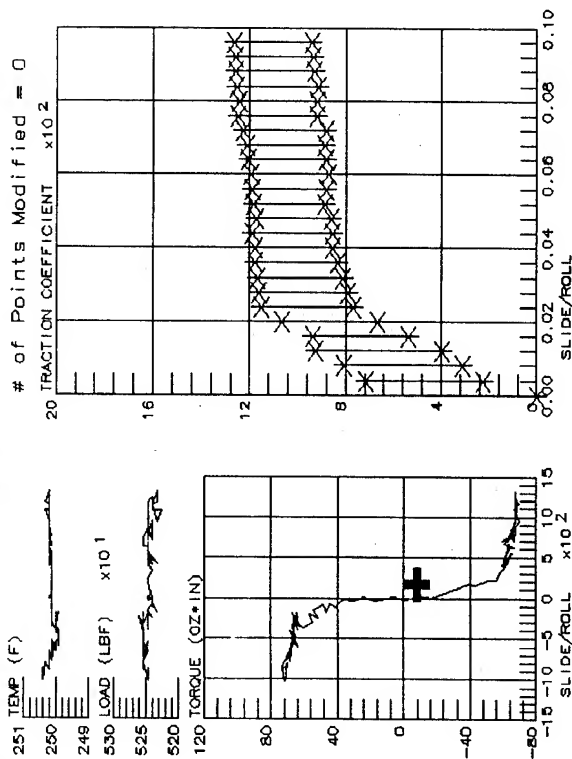


TRACTION DATA

CB 71-6 Krytox 143 ac
250F 53LBF 76RPM #6

#329

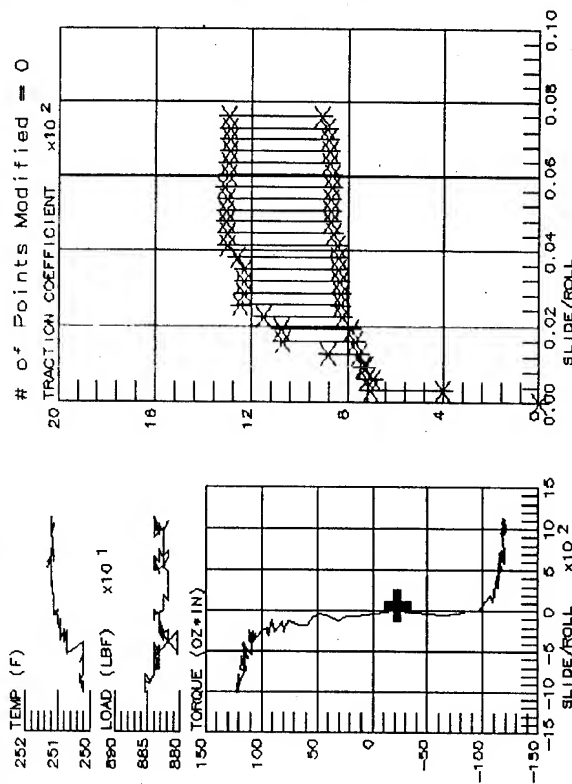
FILE: 71-6-11
of Points Modified = 0



CB 71-6 Krytox 143 ac
250F 89LBF 76RPM #7

#330

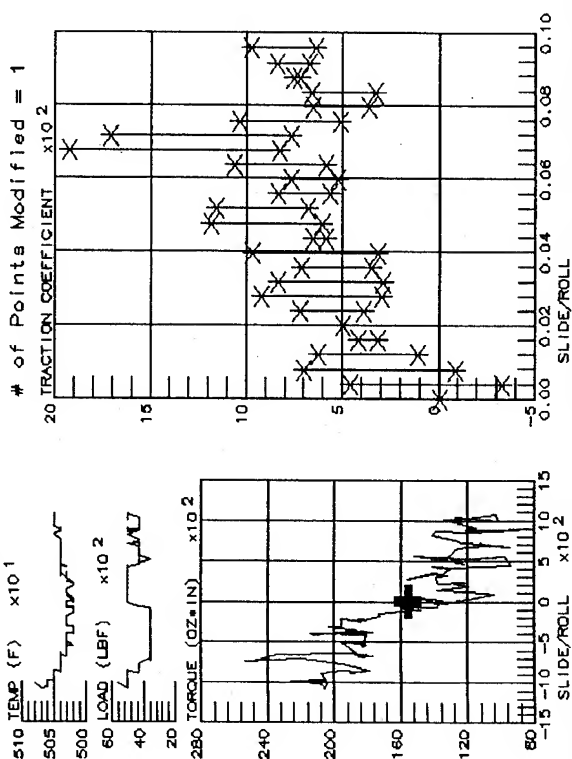
FILE: 71-6-11
of Points Modified = 0



CB 71-6 Krytox 143 ac
250F 1LBF 152RPM #8

#331

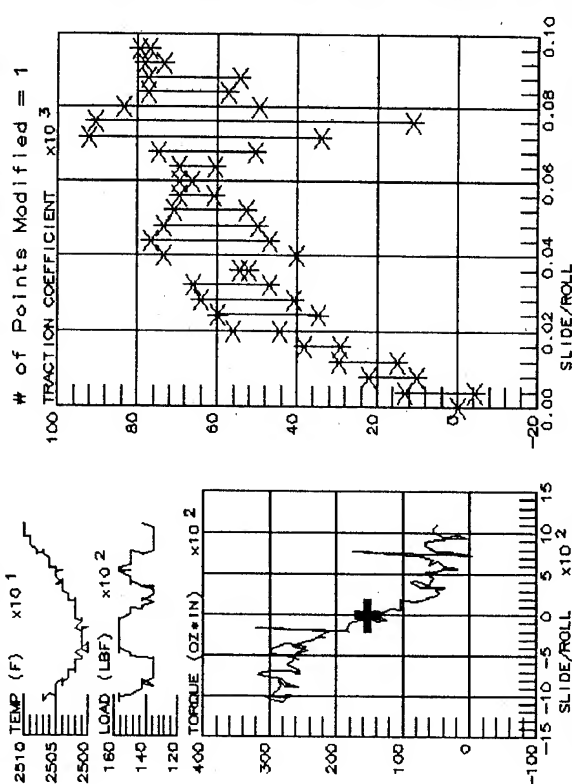
FILE: 71-6-11
of Points Modified = 1



CB 71-6 Krytox 143 ac
250F 2LBF 152RPM #9

#332

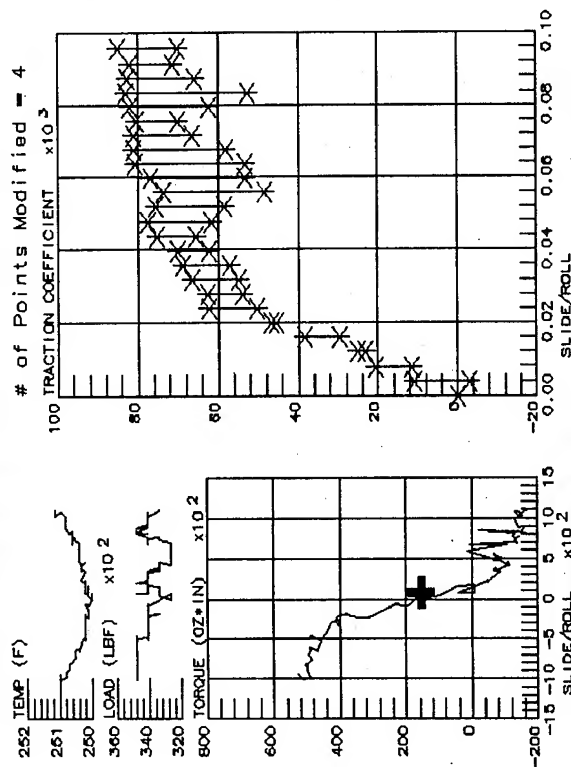
FILE: 71-6-11
of Points Modified = 1



TRACTION DATA

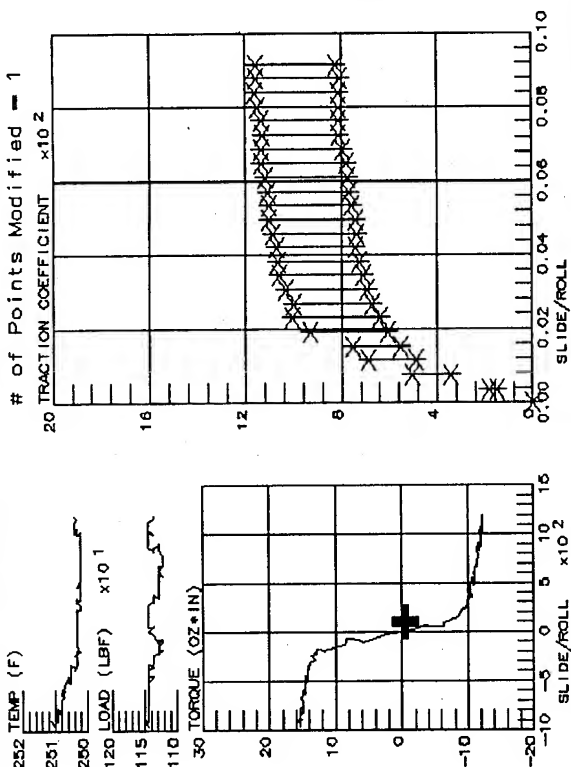
CB 71-6 Krytox 143 ac FILE: 71-6-11
250F 4LBF 152RPM #10

of Points Modified = 4



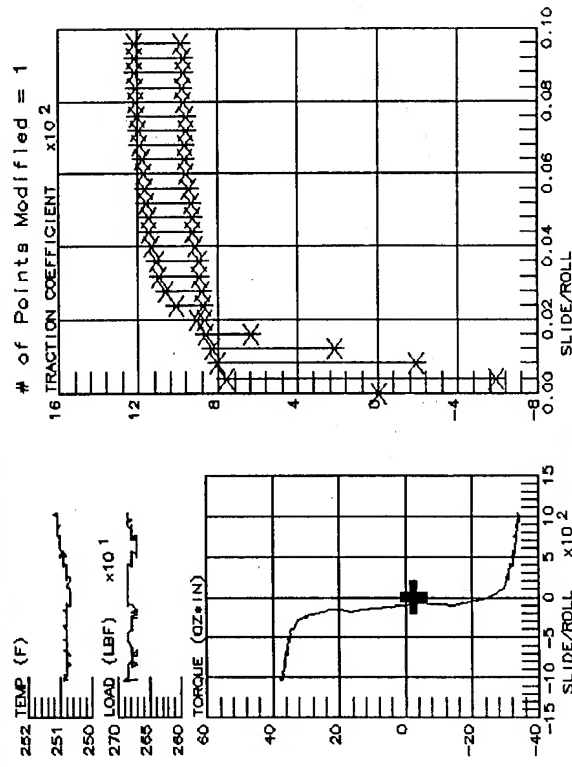
CB 71-6 Krytox 143 ac FILE: 71-6-11
250F 12LBF 152RPM #11

of Points Modified = 1



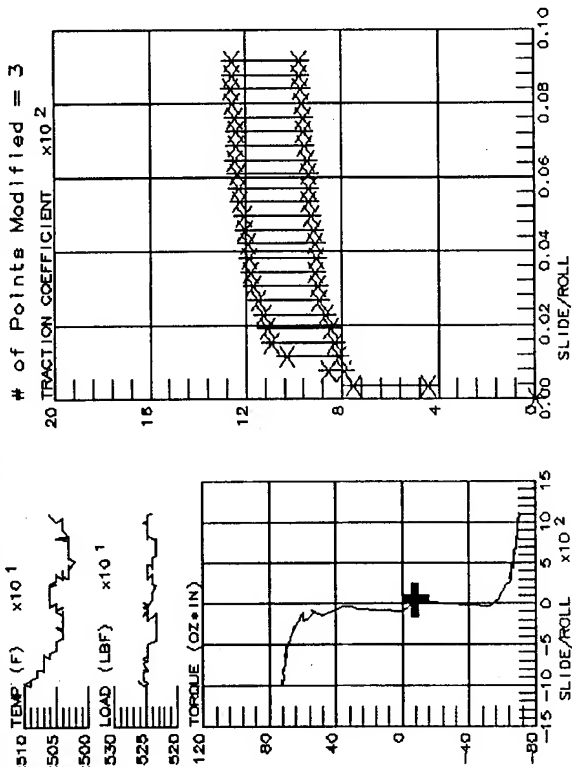
CB 71-6 Krytox 143 ac FILE: 71-6-11
250F 27LBF 152RPM #12

of Points Modified = 1



CB 71-6 Krytox 143 ac FILE: 71-6-11
250F 53LBF 152RPM #13

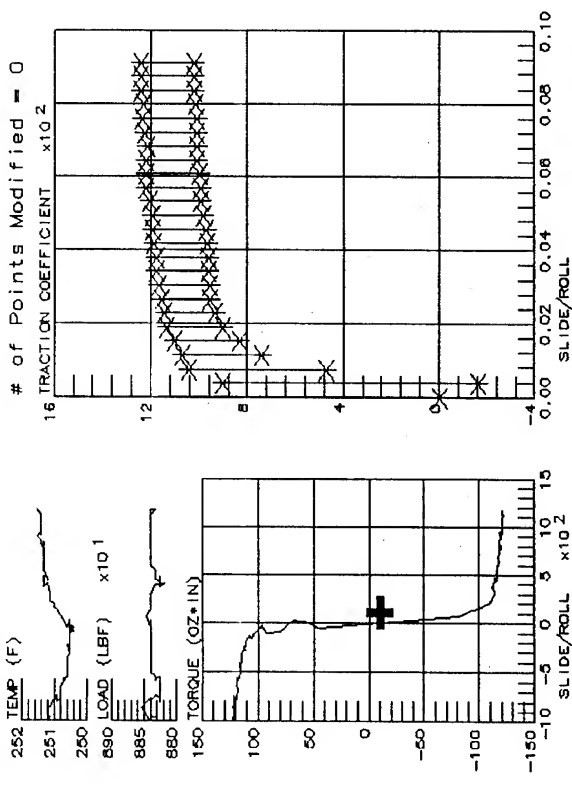
of Points Modified = 3



TRACTION DATA

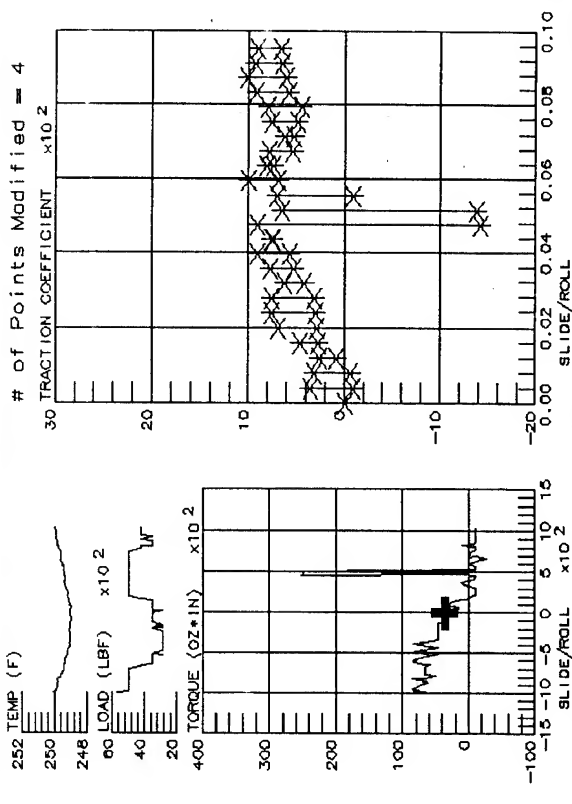
CB 71-6 Krytox 143 ac FILE: 71-6-11
250F 89LBF 152RPM #14

#337



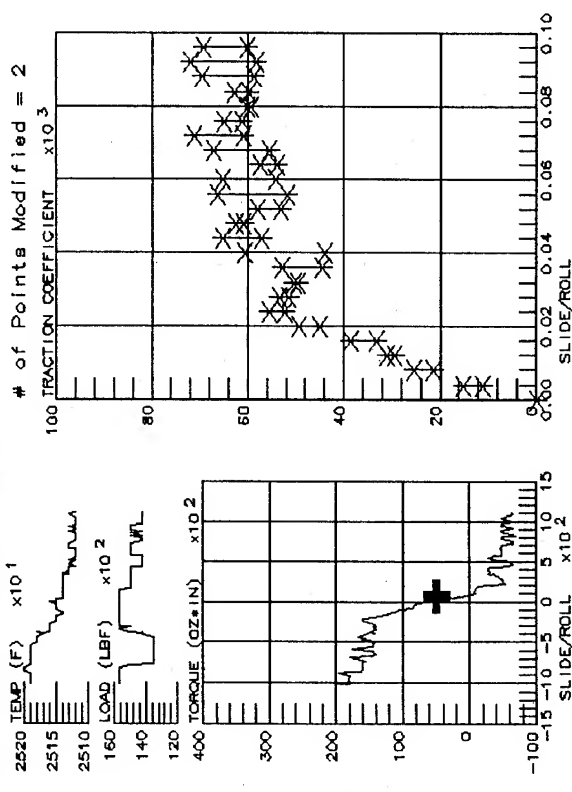
CB 71-6 Krytox 143 ac FILE: 71-6-11
250F 1LBF 342RPM #15

#338



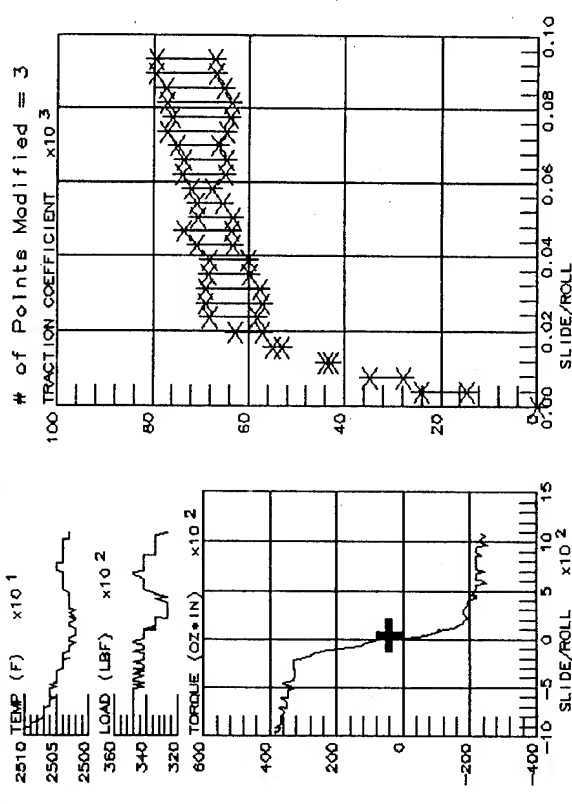
CB 71-6 Krytox 143 ac FILE: 71-6-11
250F 2LBF 342RPM #16

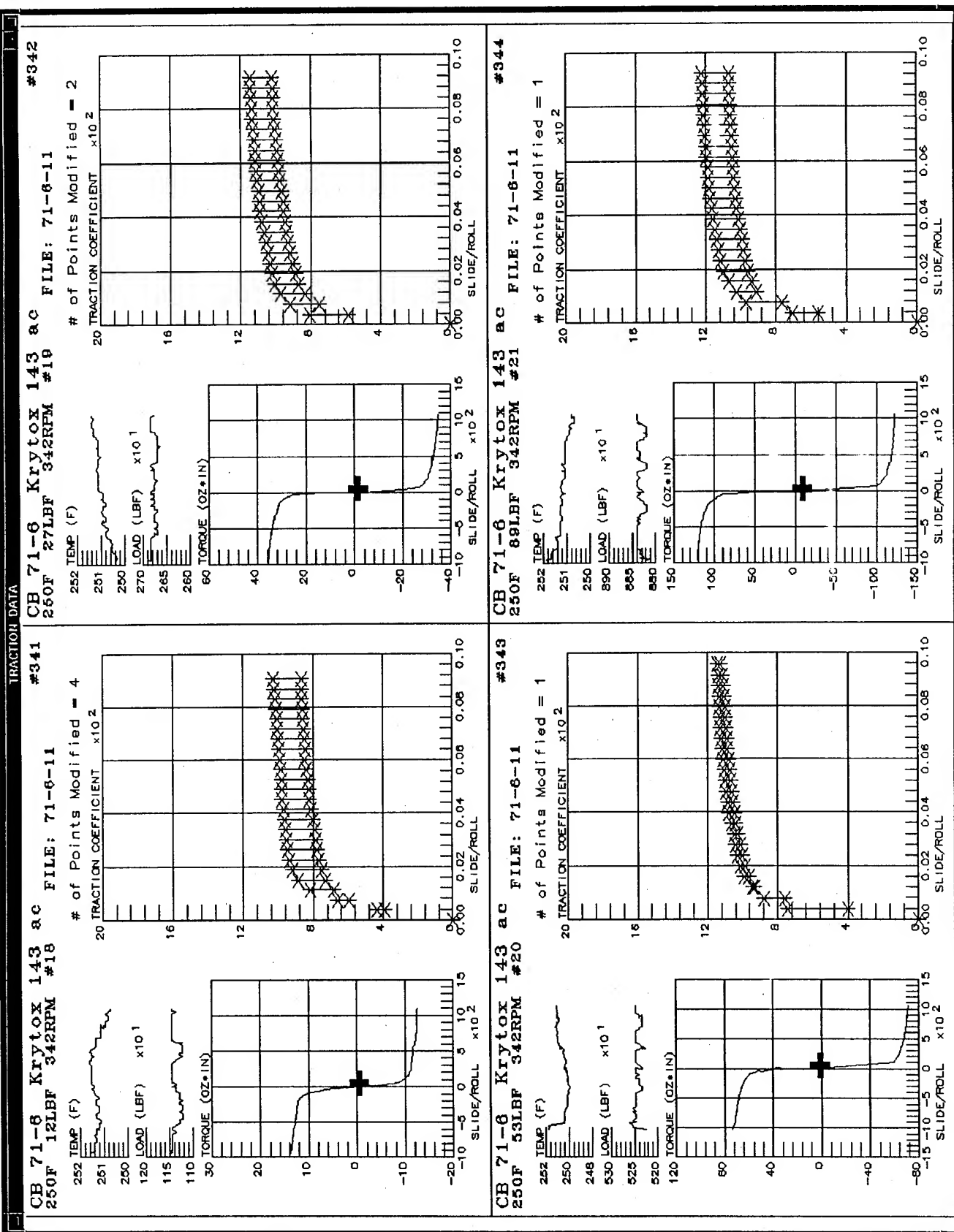
#339



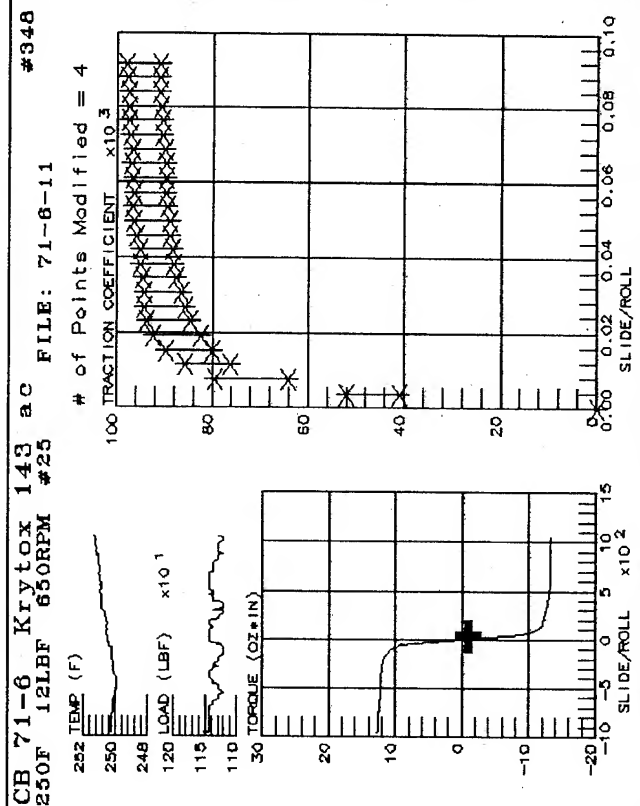
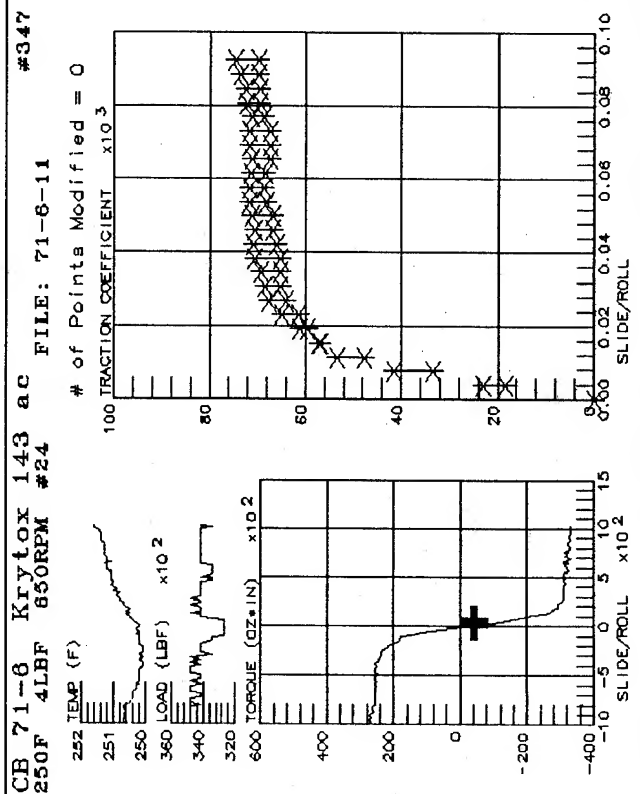
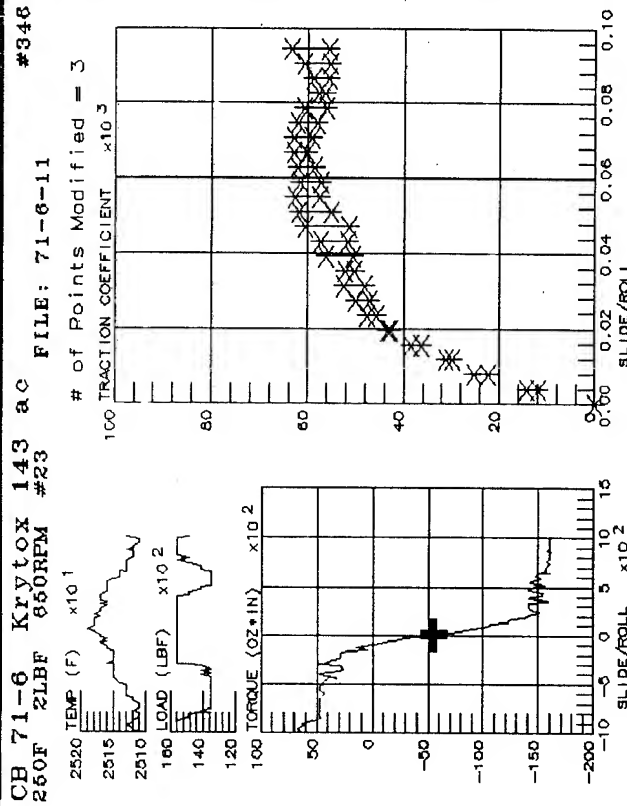
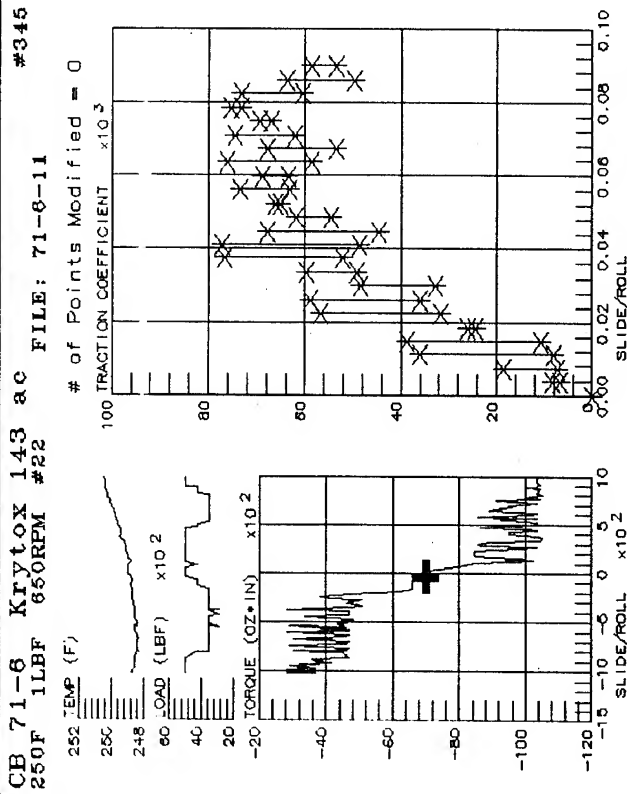
CB 71-6 Krytox 143 ac FILE: 71-6-11
250F 4LBF 342RPM #17

#340

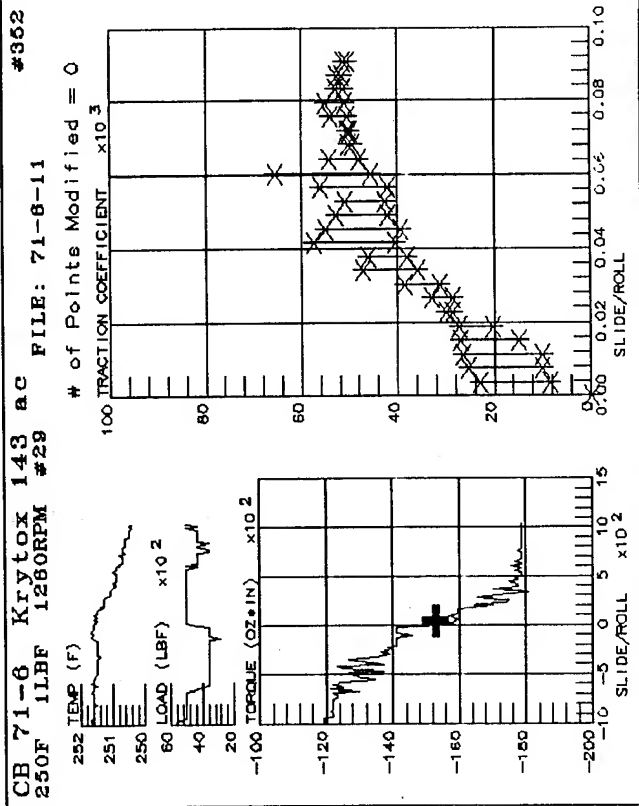
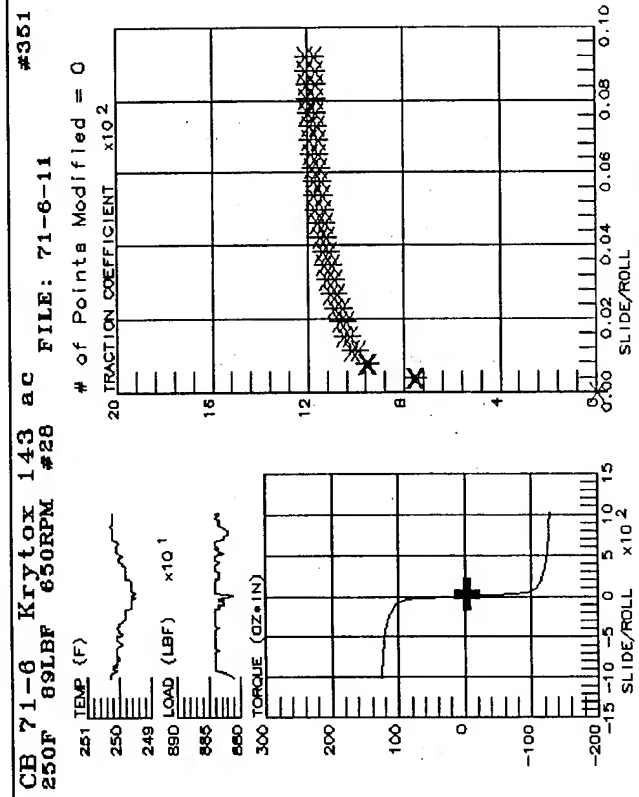
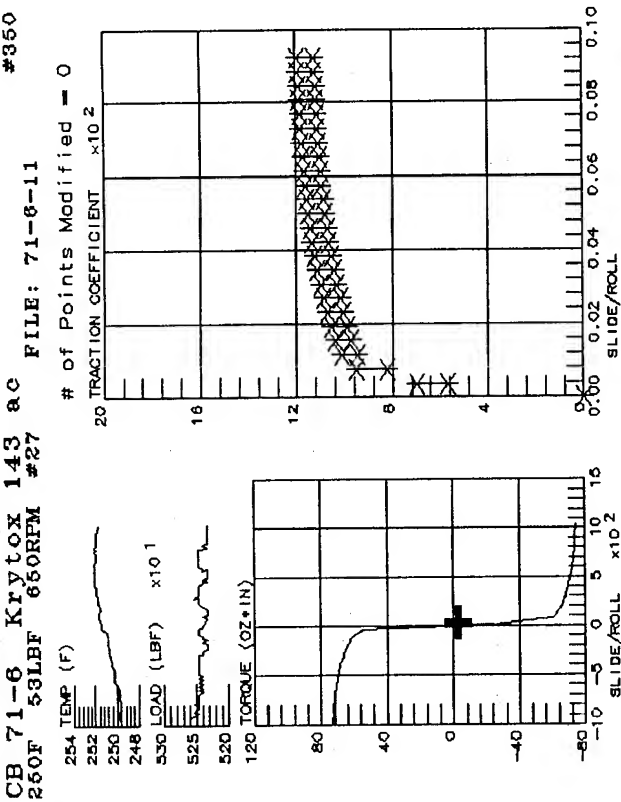
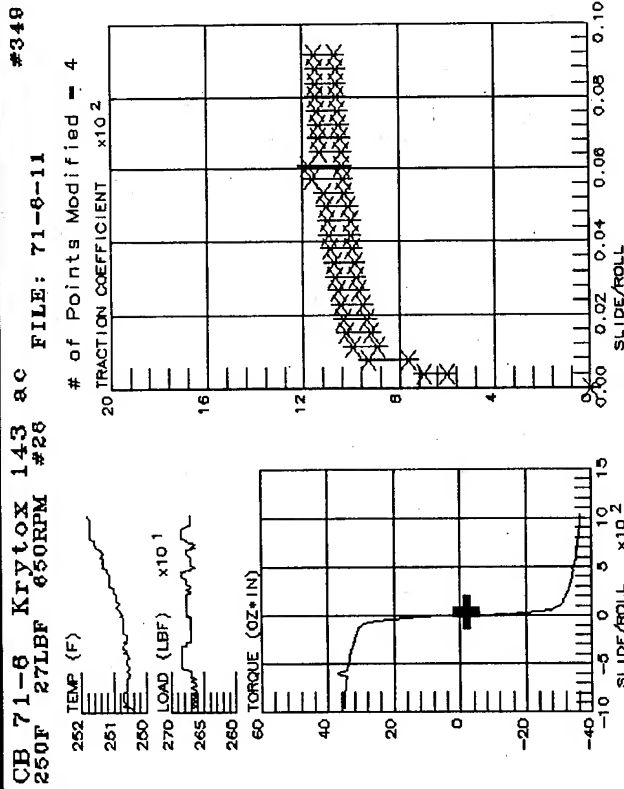




TRACTION DATA

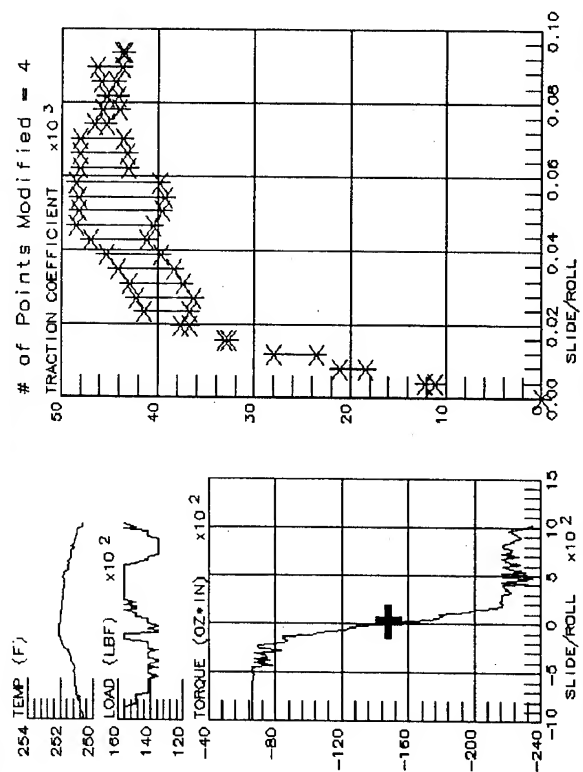


TRACTION DATA

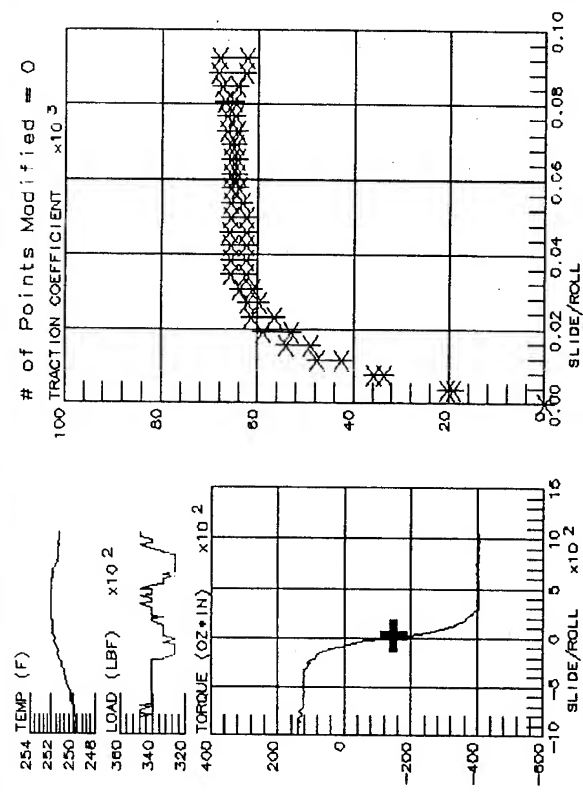


TRACTION DATA

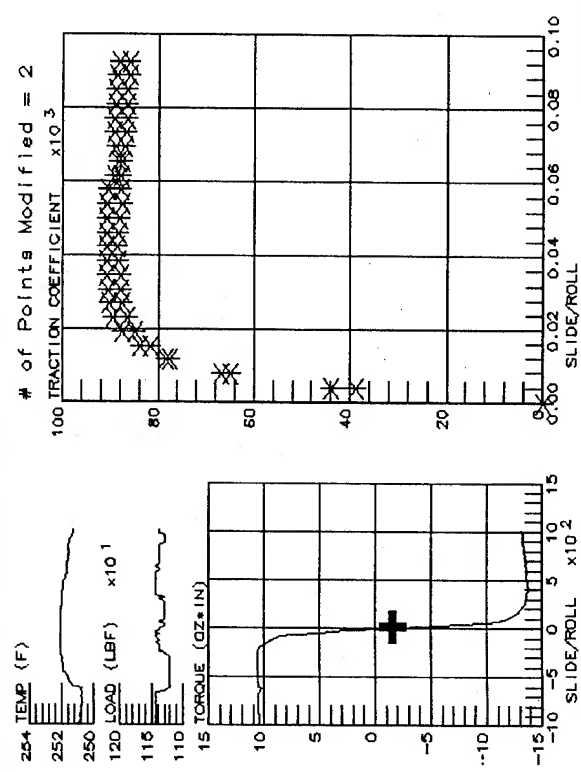
CB 71-6 Krytox 143 ac FILE: 71-6-11 #353



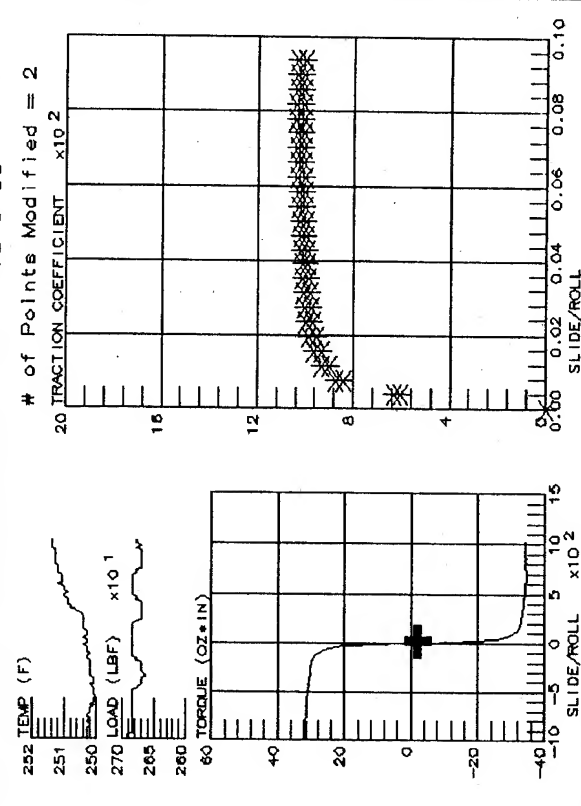
CB 71-6 Krytox 143 ac FILE: 71-6-11 #354



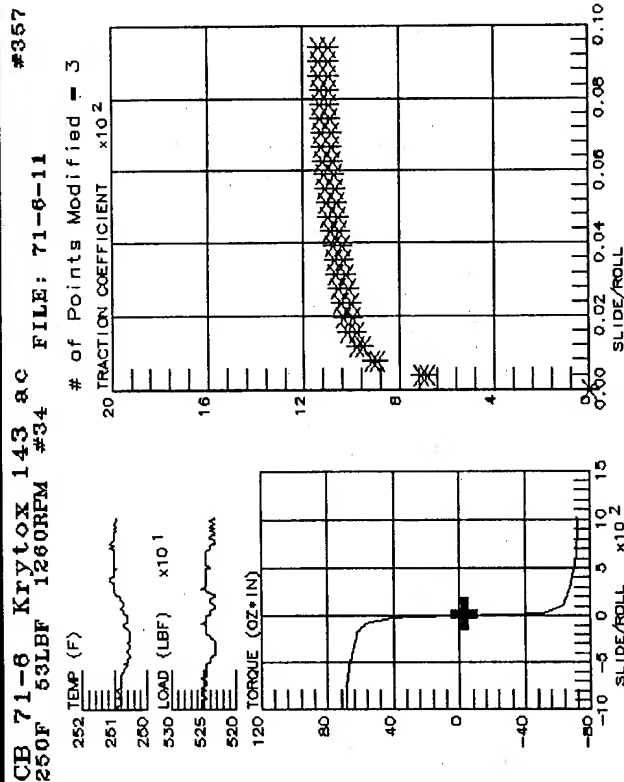
CB 71-6 Krytox 143 ac FILE: 71-6-11 #355



CB 71-6 Krytox 143 ac FILE: 71-6-11 #356



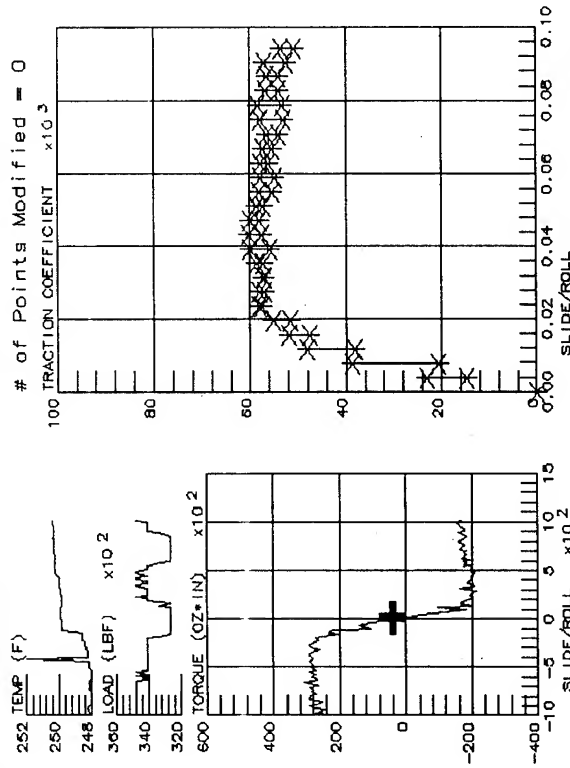
TRACTION DATA



TRACTION DATA

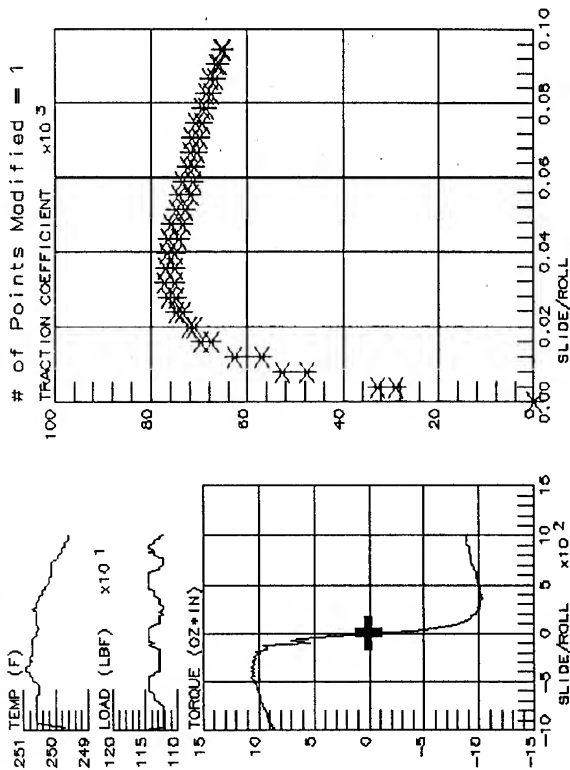
CB 71-6 Krytox 143 ac
250F 4LBF 2559RPM #38

of Points Modified = 0



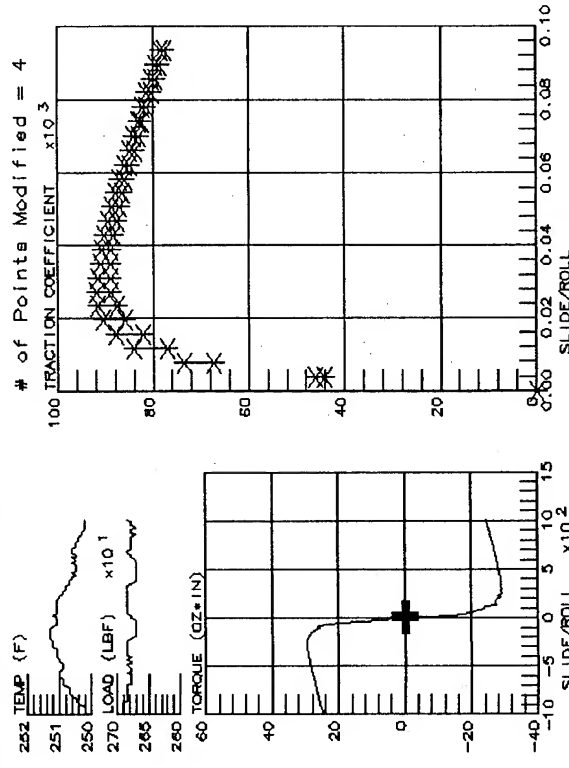
CB 71-6 Krytox 143 ac
250F 12LBF 2559RPM #39

of Points Modified = 1



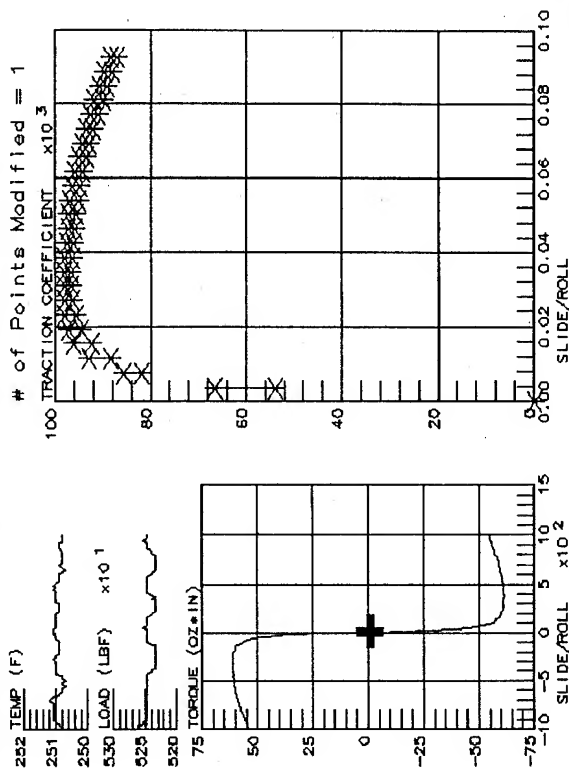
CB 71-6 Krytox 143 ac
250F 27LBF 2559RPM #40

of Points Modified = 4



CB 71-6 Krytox 143 ac
250F 53LBF 2559RPM #41

of Points Modified = 1

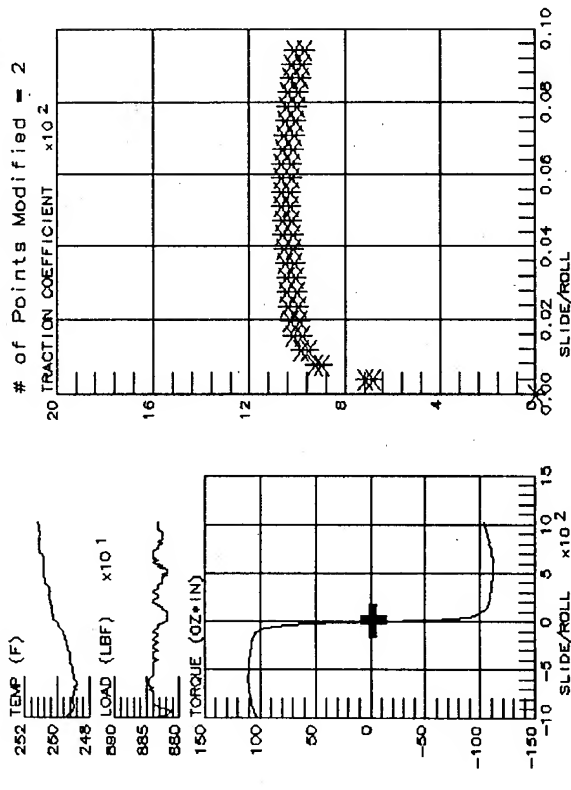


TRACTION DATA

CB 71-6 Krytox 143 ac
250F 89LBF 2550RPM #42 FILE: 71-6-11

#365

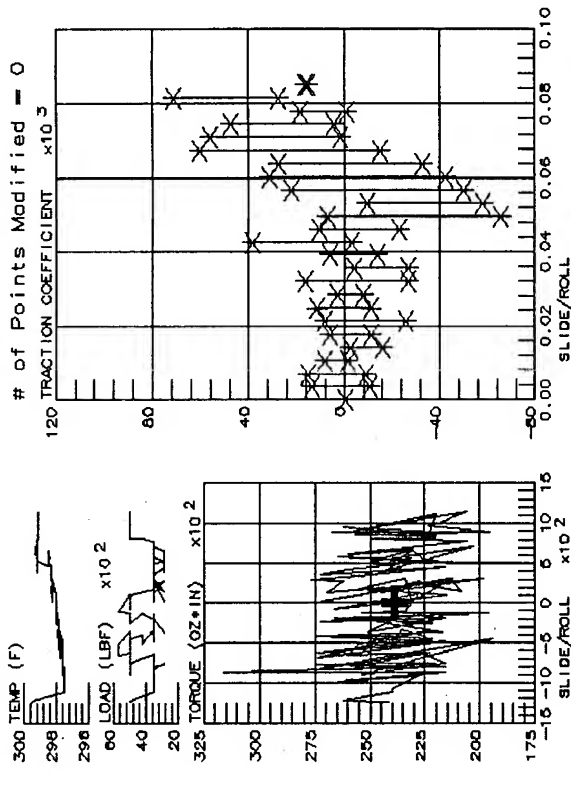
of Points Modified = 2



CB 71-6 Krytox 143 ac
300F 1LBF 76RPM #1 FILE: 71-6-12

#368

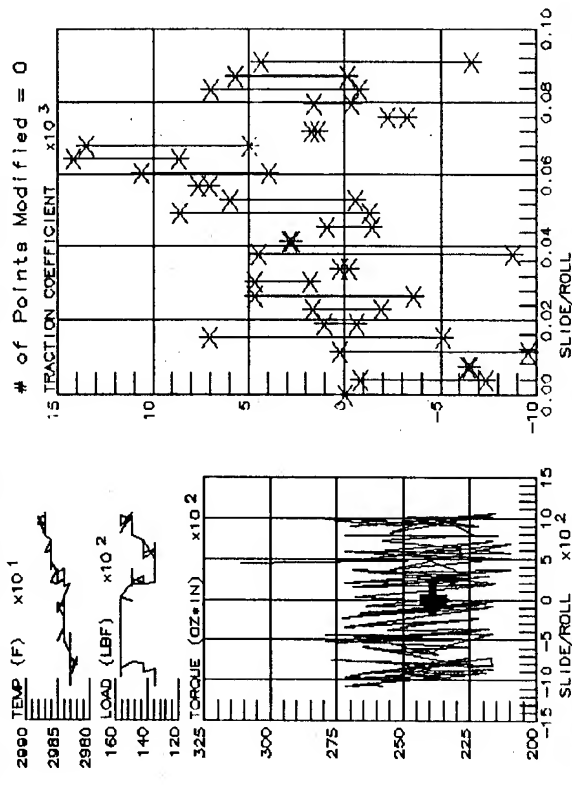
of Points Modified = 0



CB 71-6 Krytox 143 ac
300F 2LBF 76RPM #2 FILE: 71-6-12

#367

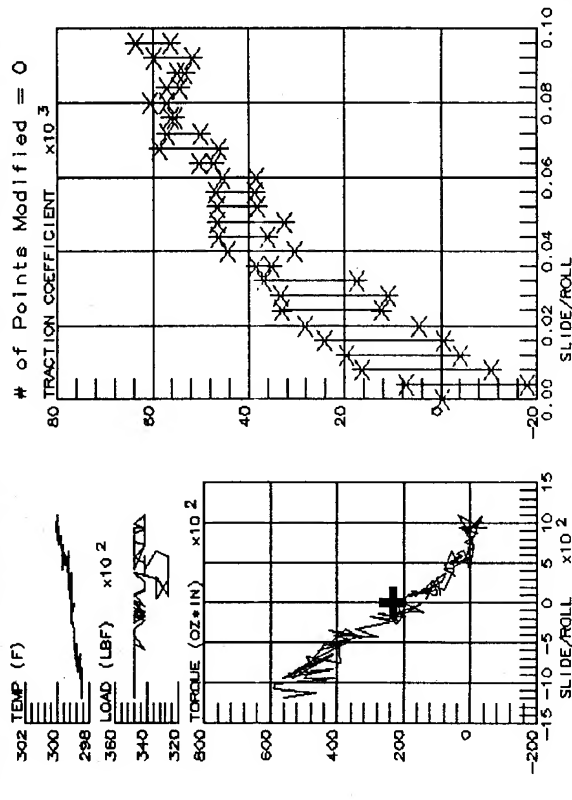
of Points Modified = 0



CB 71-6 Krytox 143 ac
300F 4LBF 76RPM #3 FILE: 71-6-12

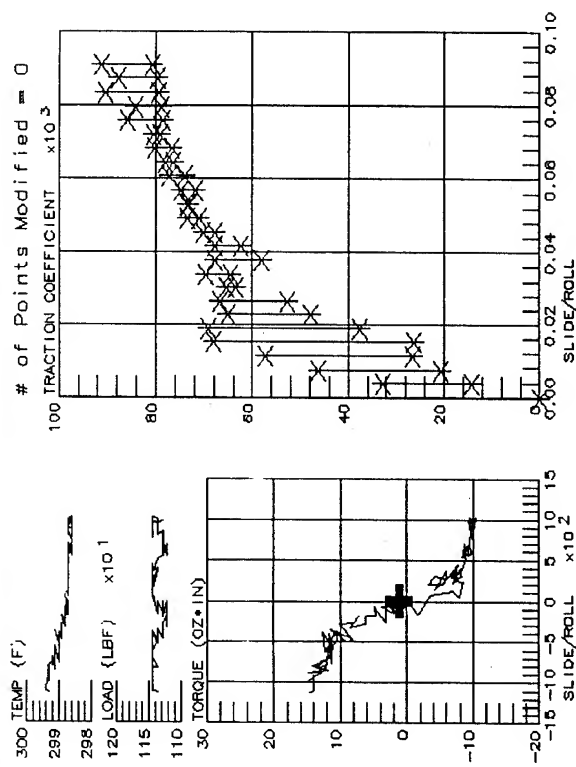
#368

of Points Modified = 0

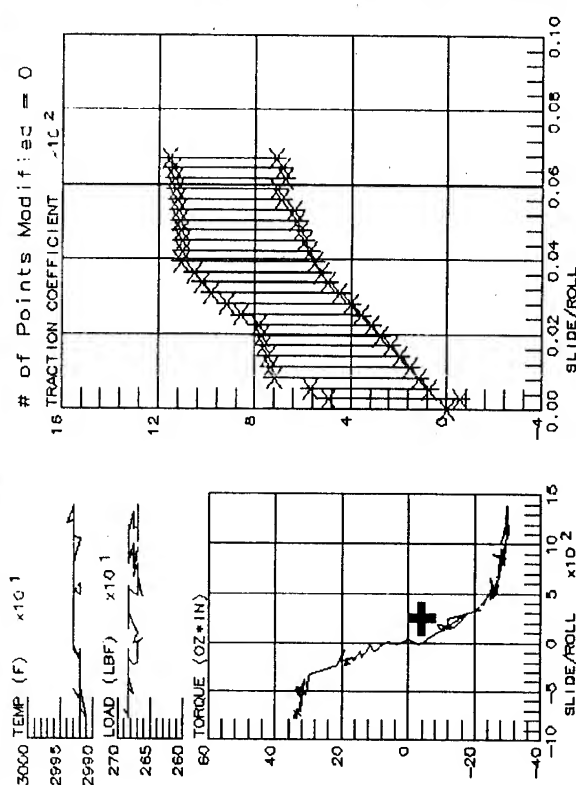


TRACTION DATA

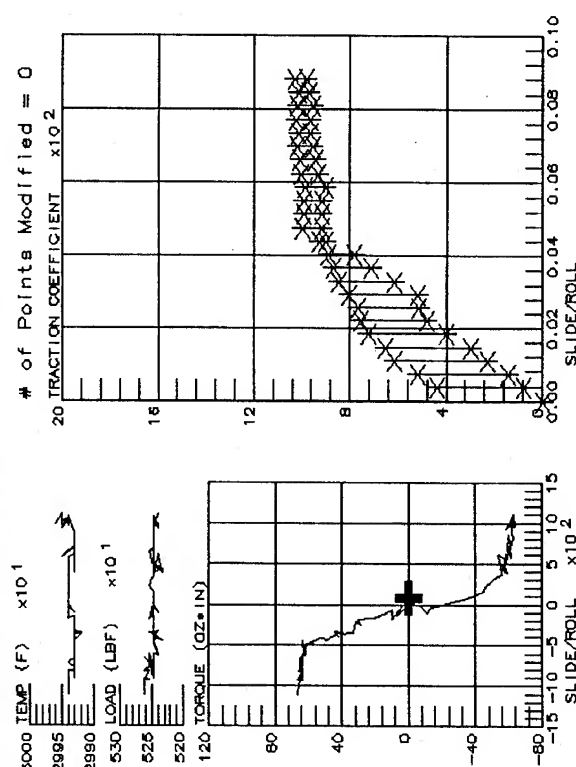
CB 71-6 Krytox 143 ac FILE: 71-6-12 #369
300F 12LBF 76RPM #4



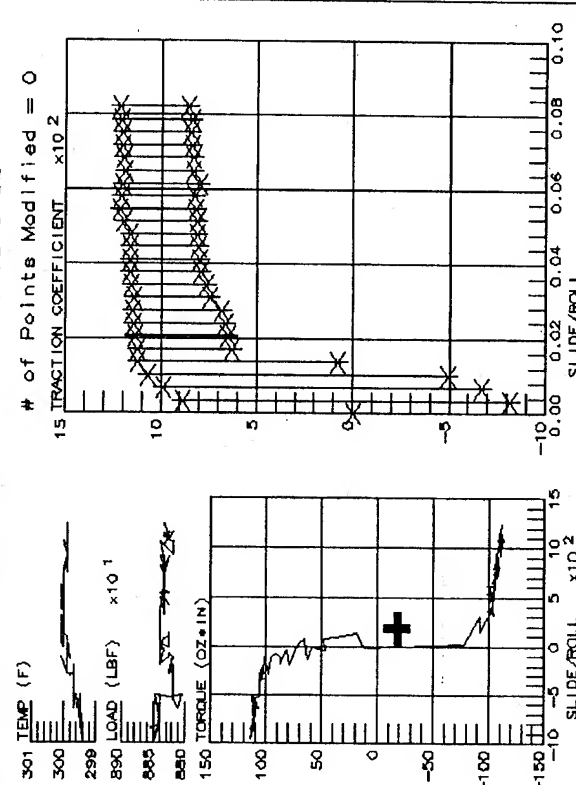
CB 71-6 Krytox 143 ac FILE: 71-6-12 #370
300F 27LBF 76RPM #5



CB 71-6 Krytox 143 ac FILE: 71-6-12 #371
300F 53LBF 76RPM #6

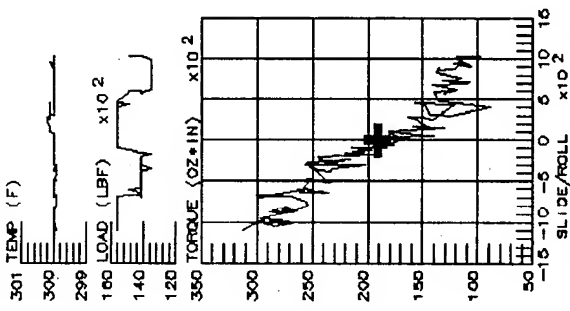
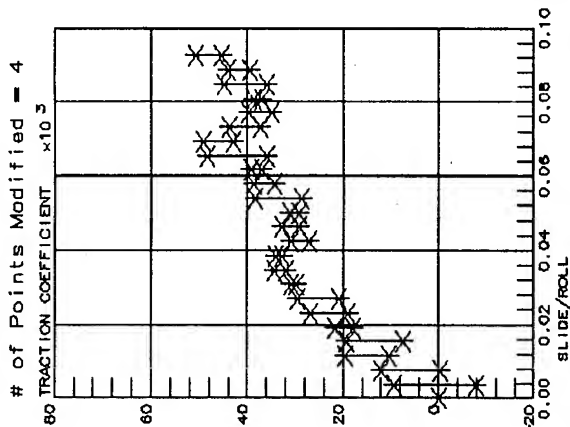


CB 71-6 Krytox 143 ac FILE: 71-6-12 #372
300F 89LBF 76RPM #7

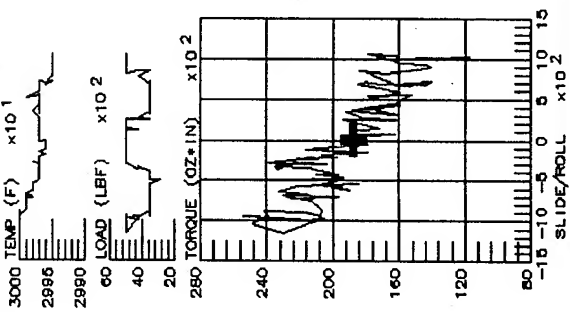
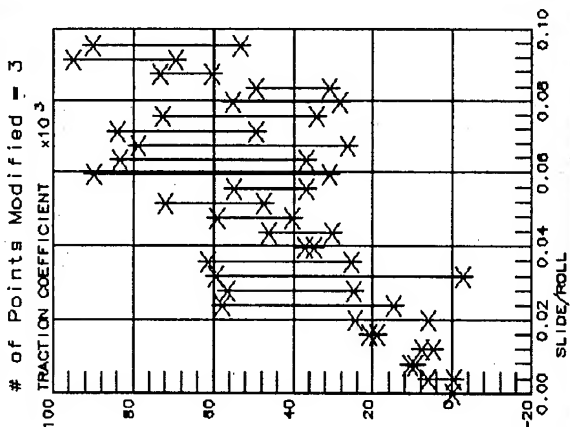


TRACTION DATA

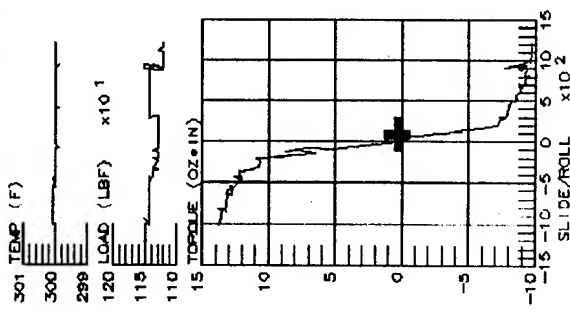
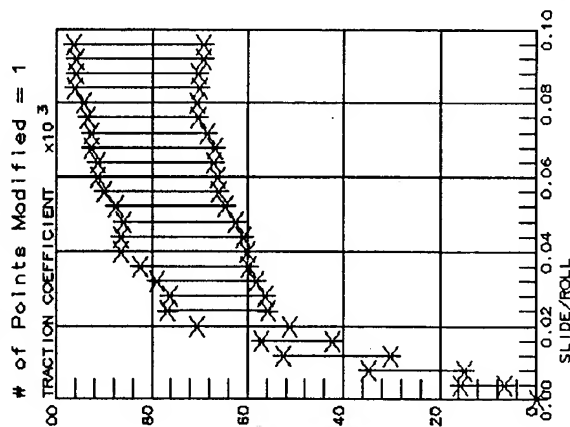
CB 71-6 Krytox 143 ac FILE: 71-6-12 #374
300F 2LBF 152RPM #9



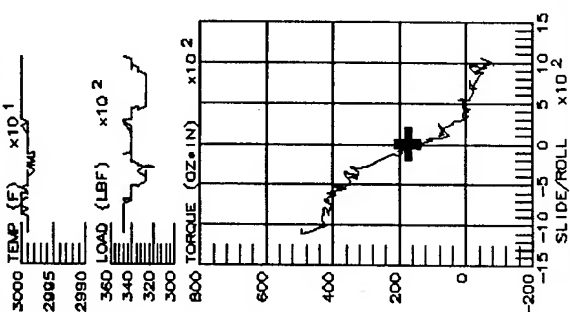
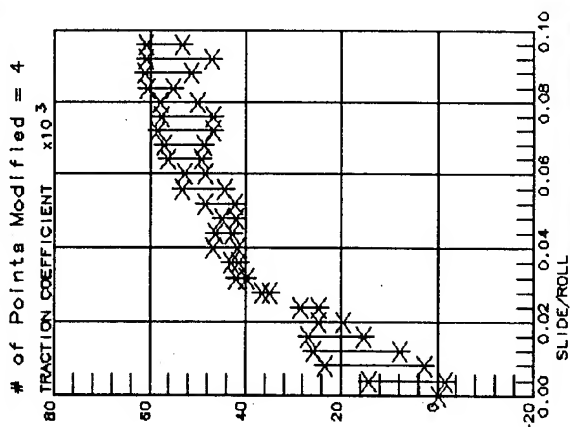
CB 71-6 Krytox 143 ac FILE: 71-6-12 #373
300F 1LBF 152RPM #8



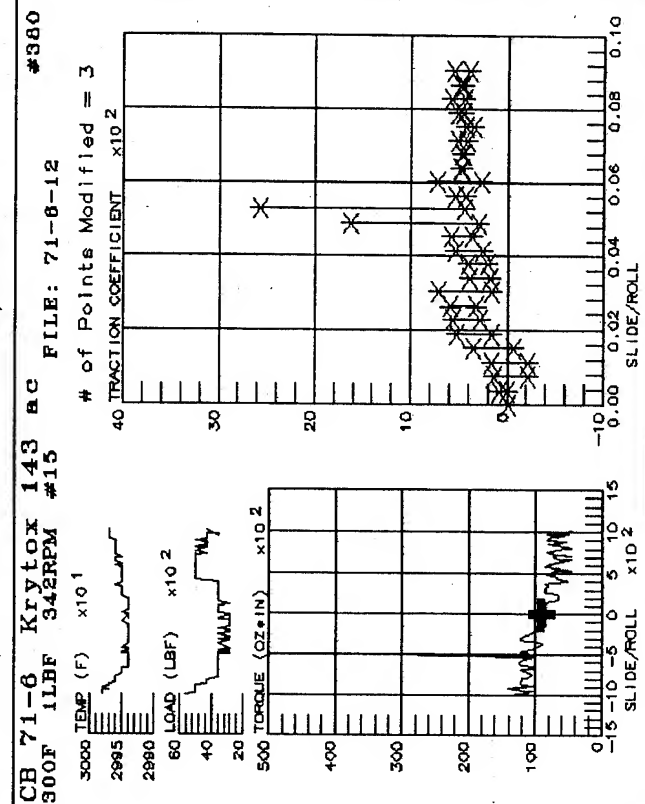
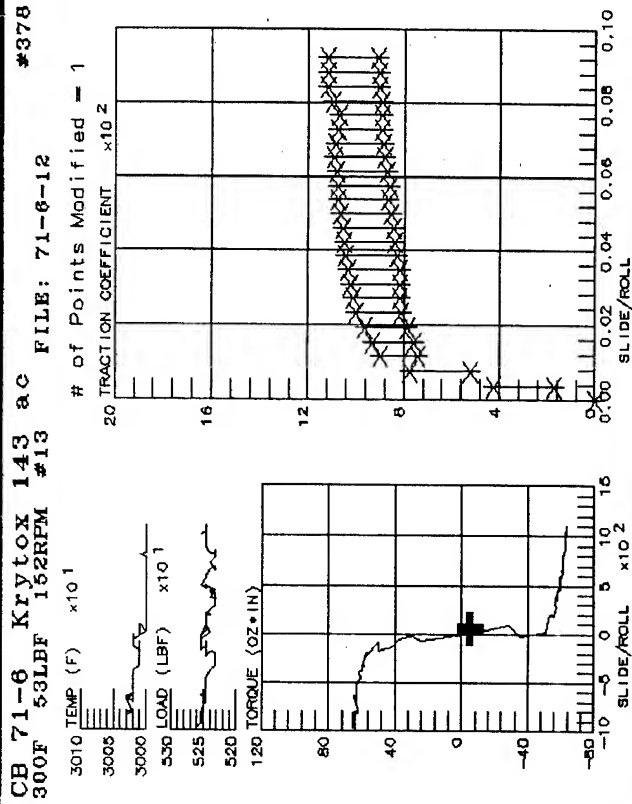
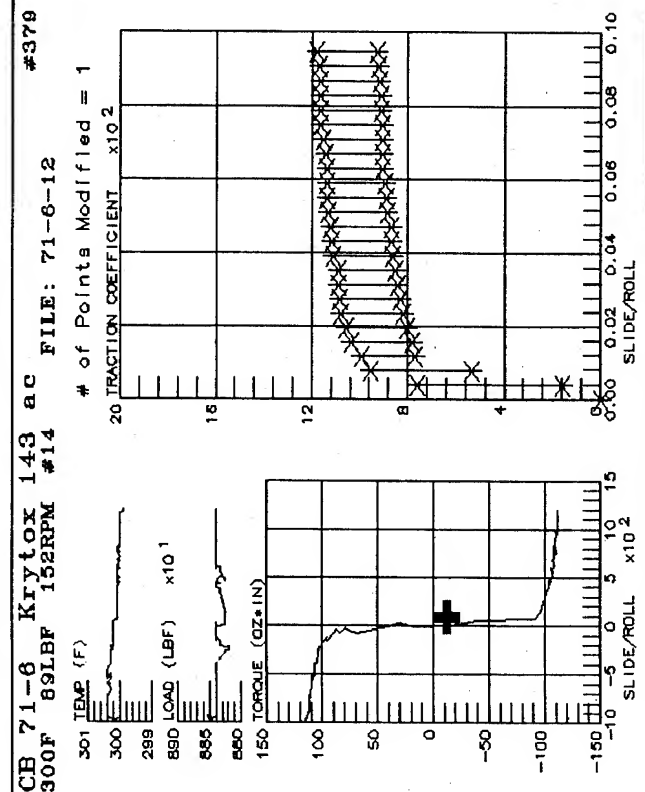
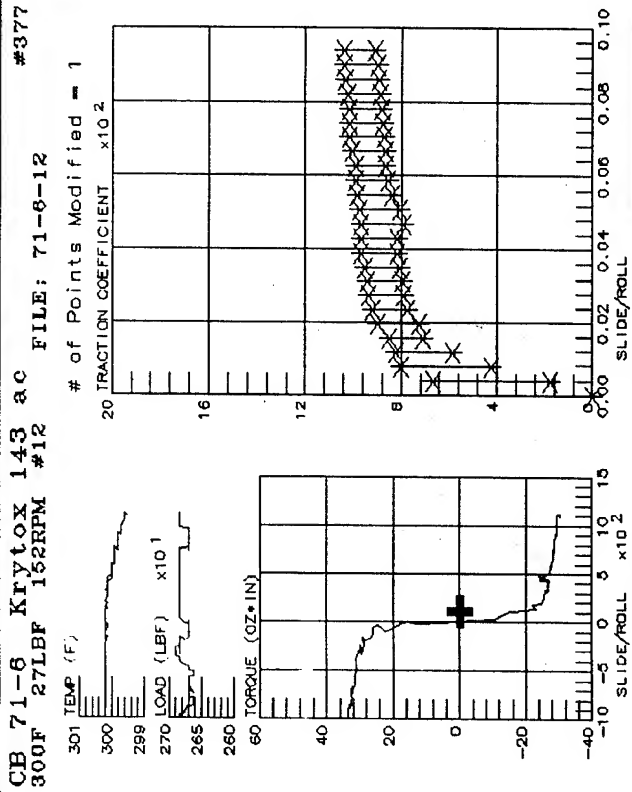
CB 71-6 Krytox 143 ac FILE: 71-6-12 #376
300F 12LBF 152RPM #11



CB 71-6 Krytox 143 ac FILE: 71-6-12 #375
300F 4LBF 152RPM #10

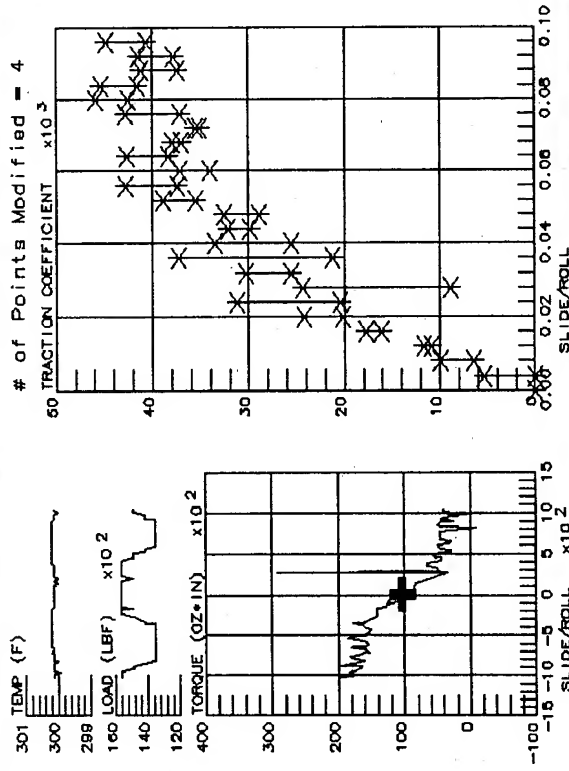


TRACTION DATA

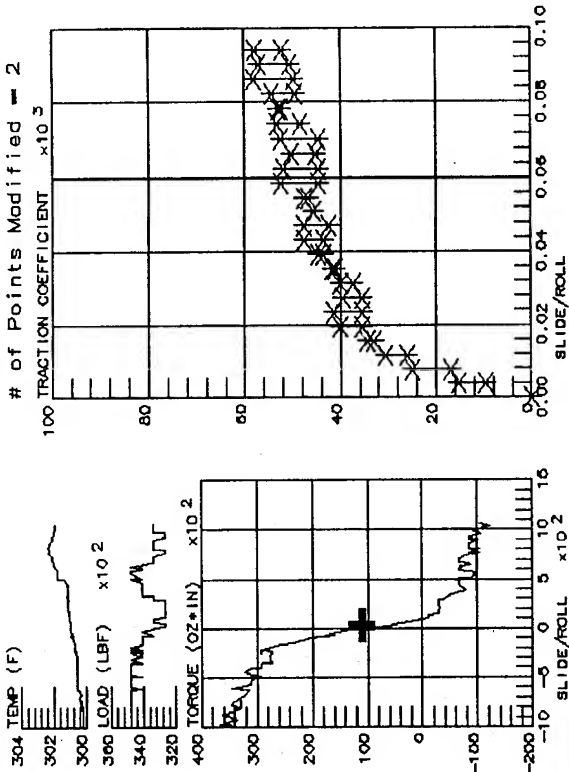


TRACTION DATA

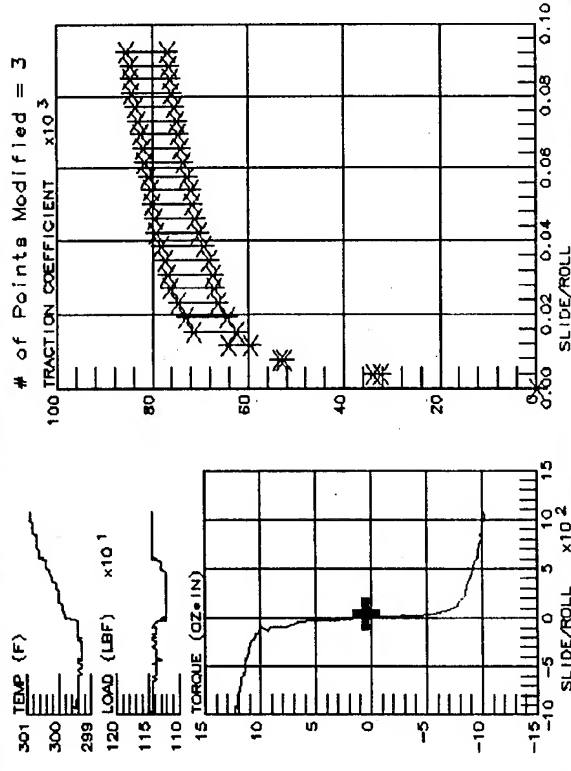
CB 71-6 Krytox 143 ac FILE: 71-6-12 #381
300F 2LBF 342RPM #16



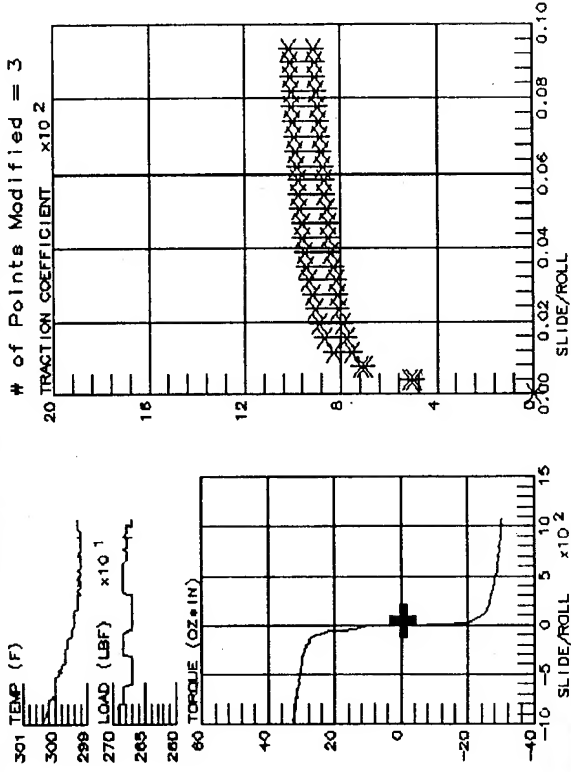
CB 71-6 Krytox 143 ac FILE: 71-6-12 #382
300F 4LBF 342RPM #17



CB 71-6 Krytox 143 ac FILE: 71-6-12 #383
300F 12LBF 342RPM #18



CB 71-6 Krytox 143 ac FILE: 71-6-12 #384
300F 27LBF 342RPM #19



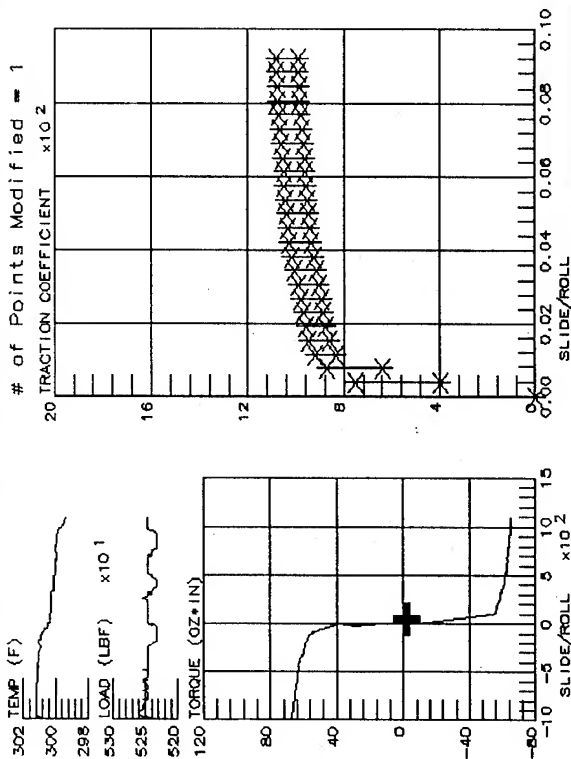
TRACTION DATA

CB 71-6 Krytox 143 ac FILE: 71-6-12

#385

300F 53LBF 342RPM #20

of Points Modified = 1

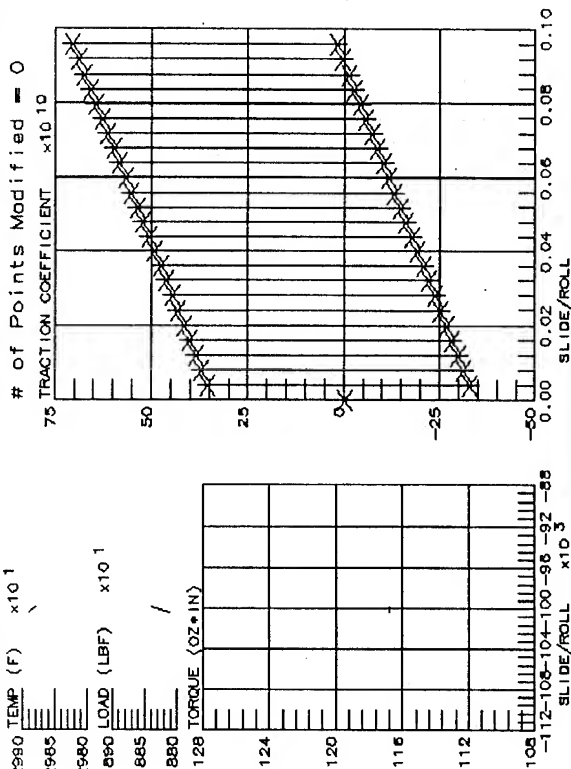


CB 71-6 Krytox 143 ac FILE: 71-6-12

#388

300F 89LBF 342RPM #21

of Points Modified = 0

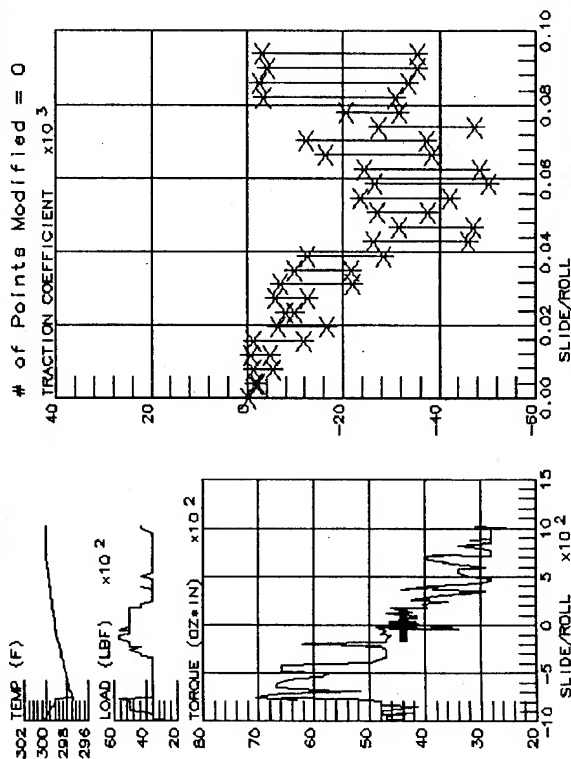


CB 71-6 Krytox 143 ac FILE: 71-6-12x

#387

300F 1LBF 342RPM #1

of Points Modified = 0

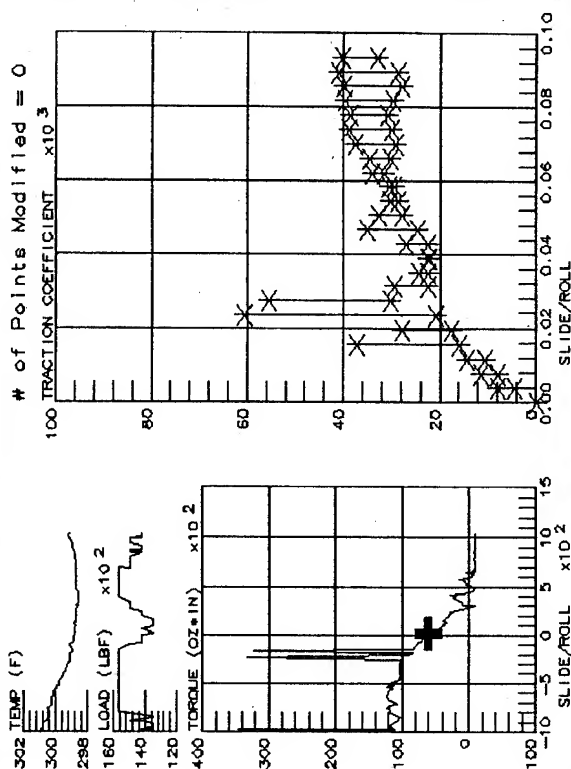


CB 71-6 Krytox 143 ac FILE: 71-6-12x

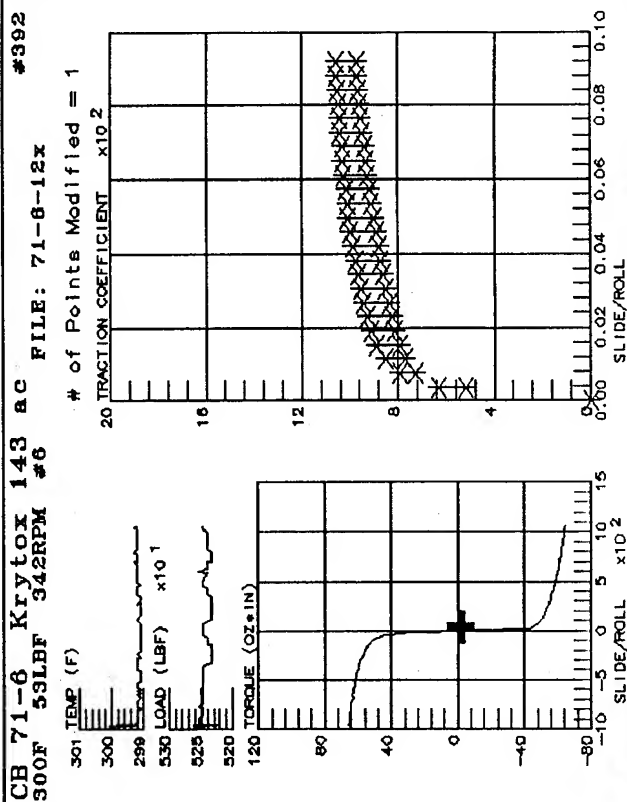
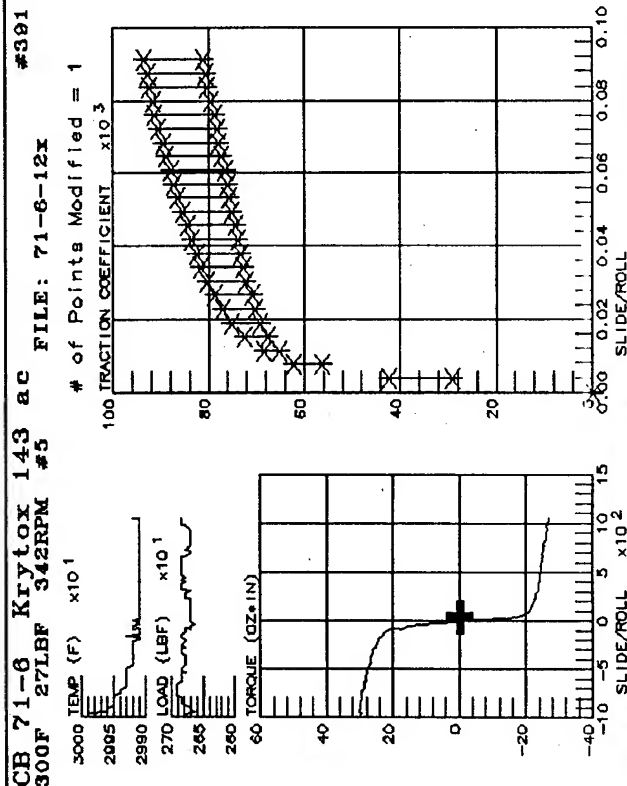
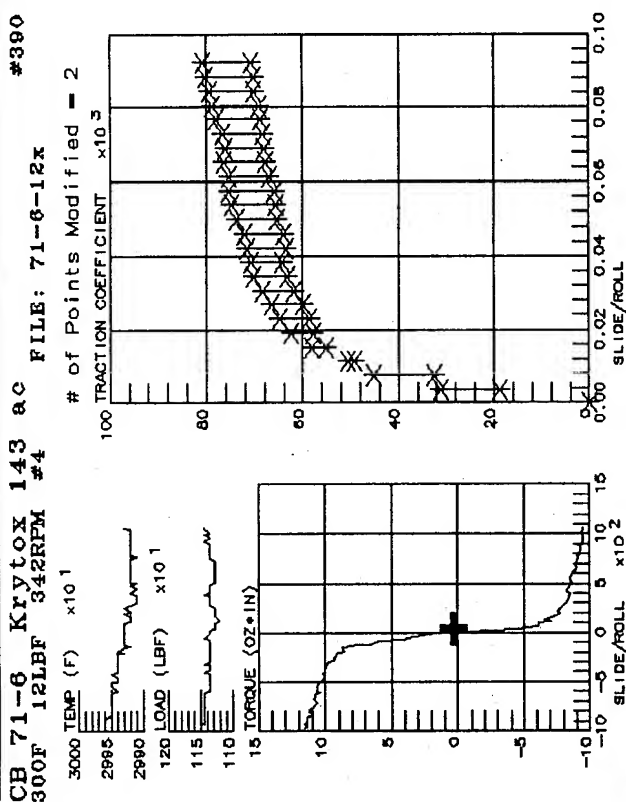
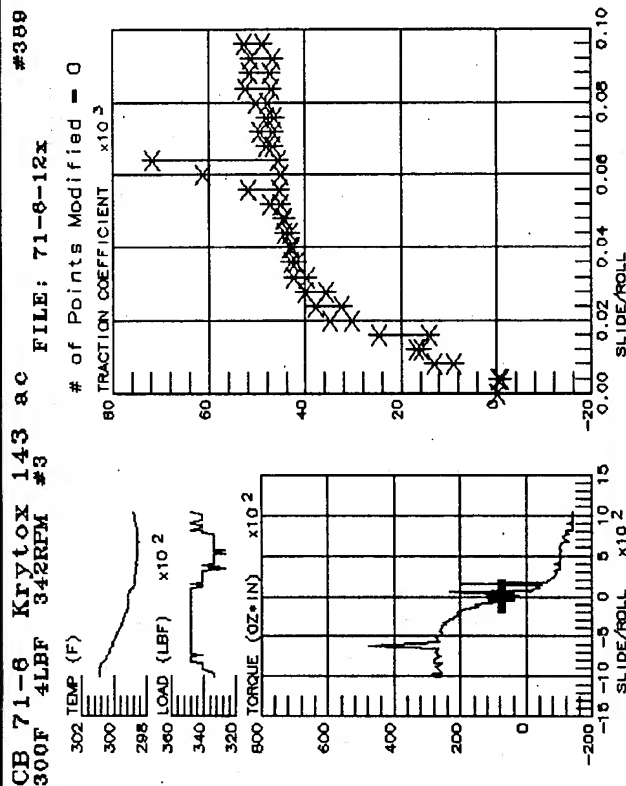
#388

300F 2LBF 342RPM #2

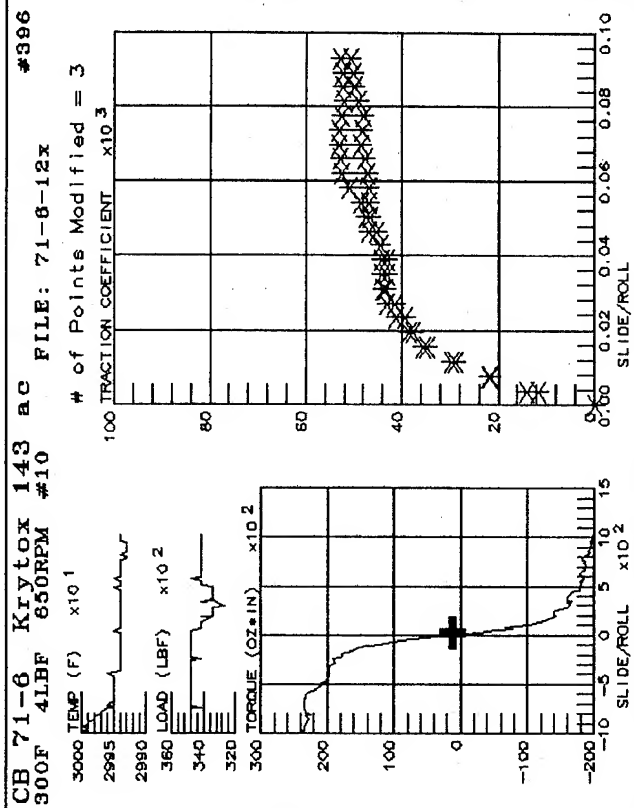
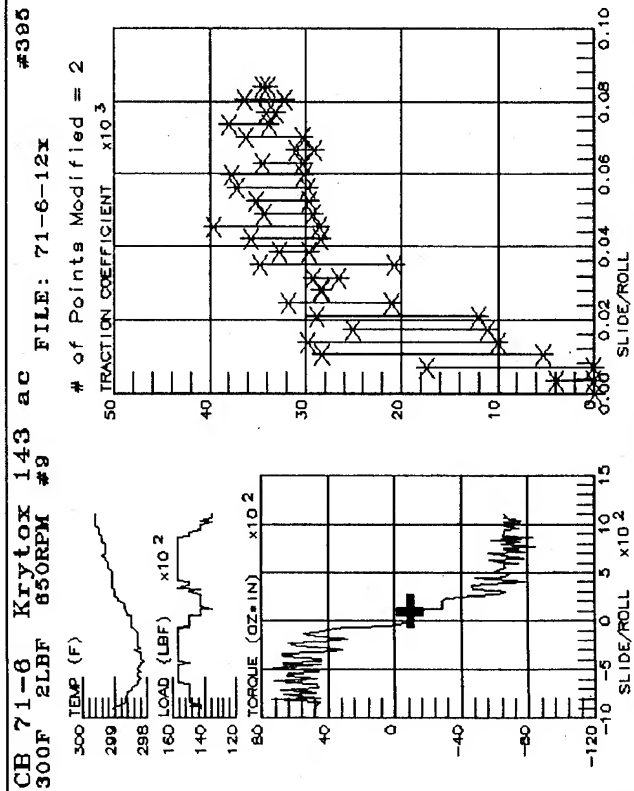
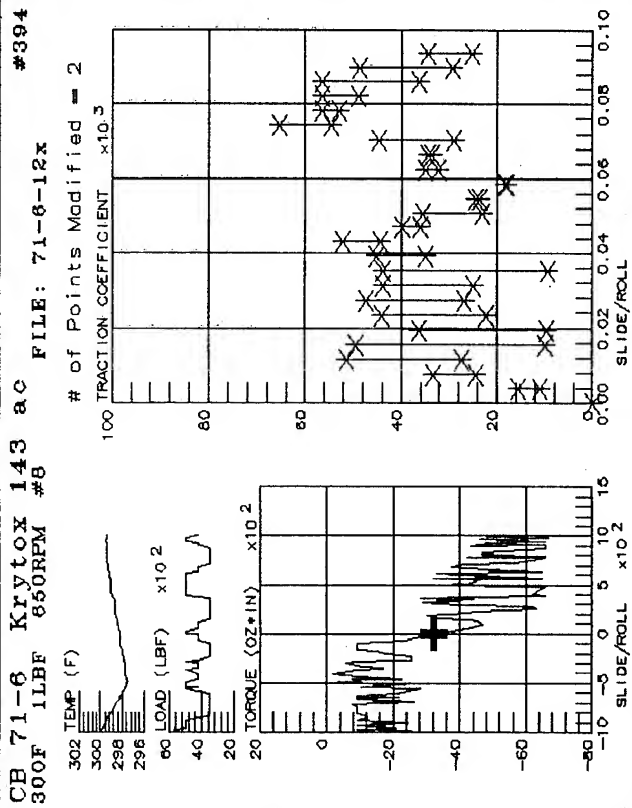
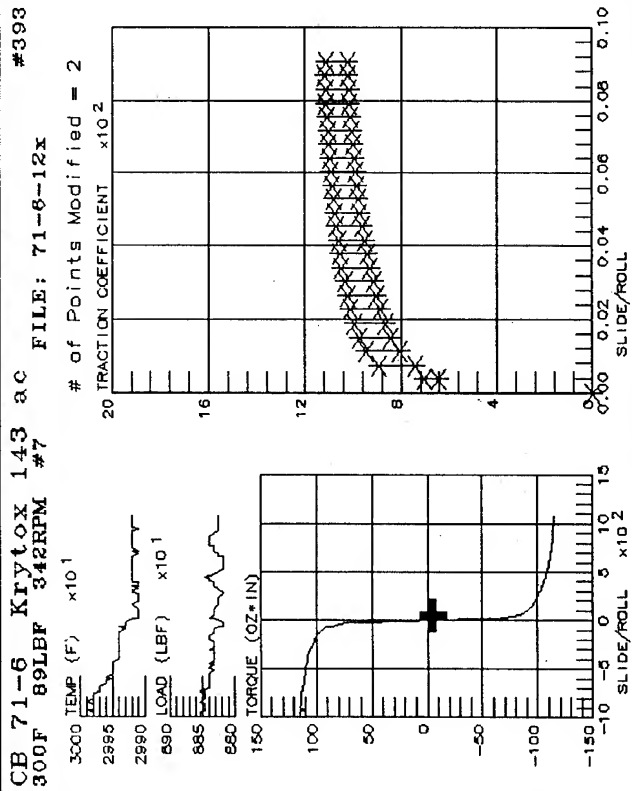
of Points Modified = 0



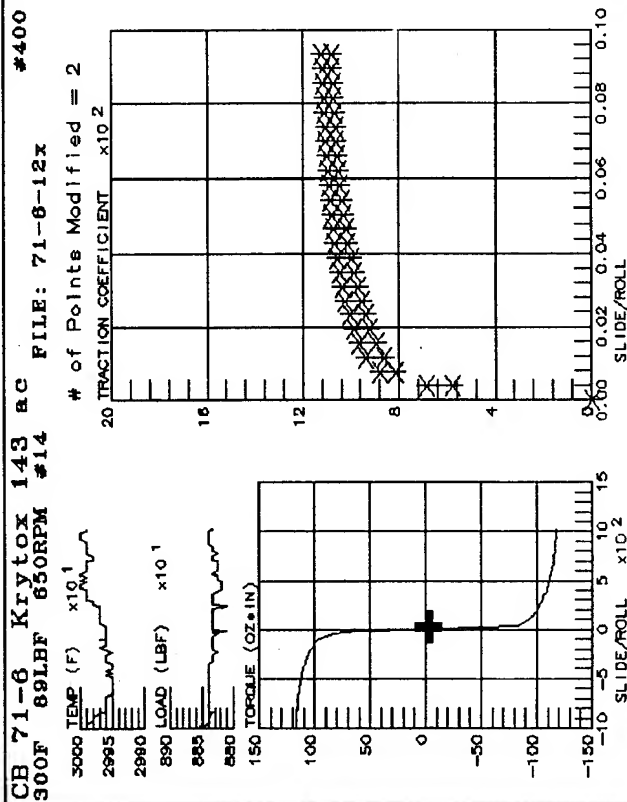
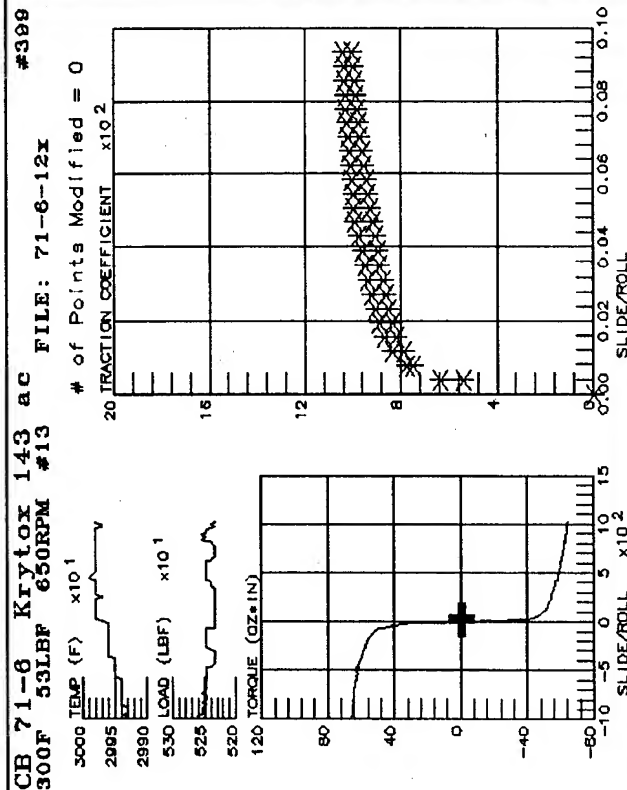
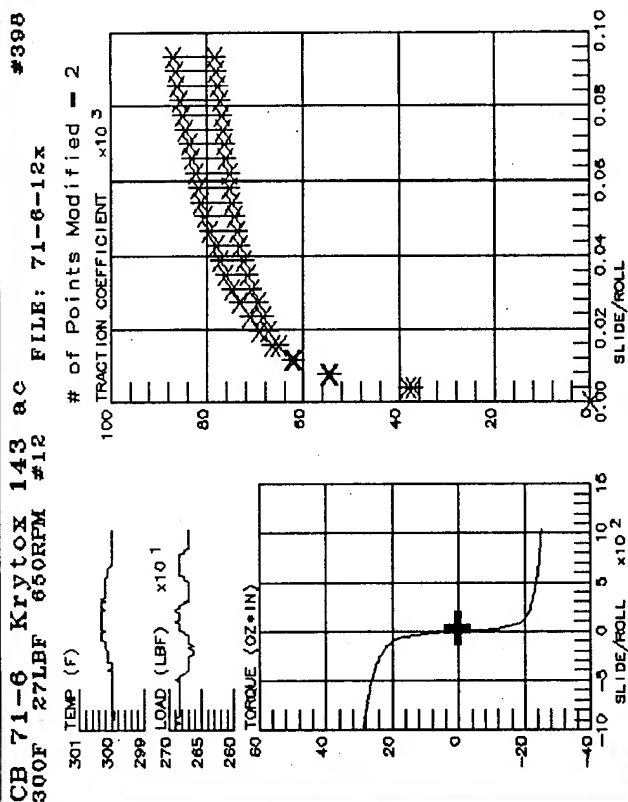
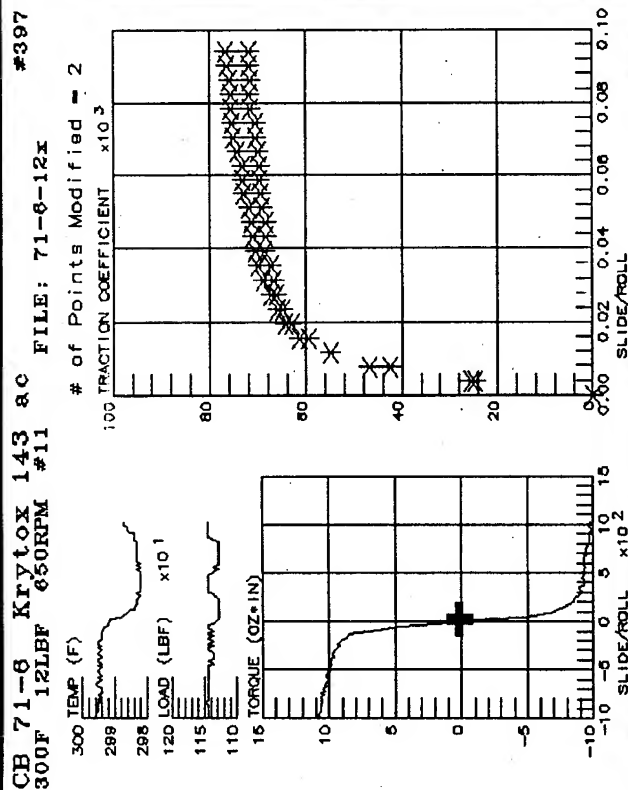
TRACTION DATA



TRACTION DATA

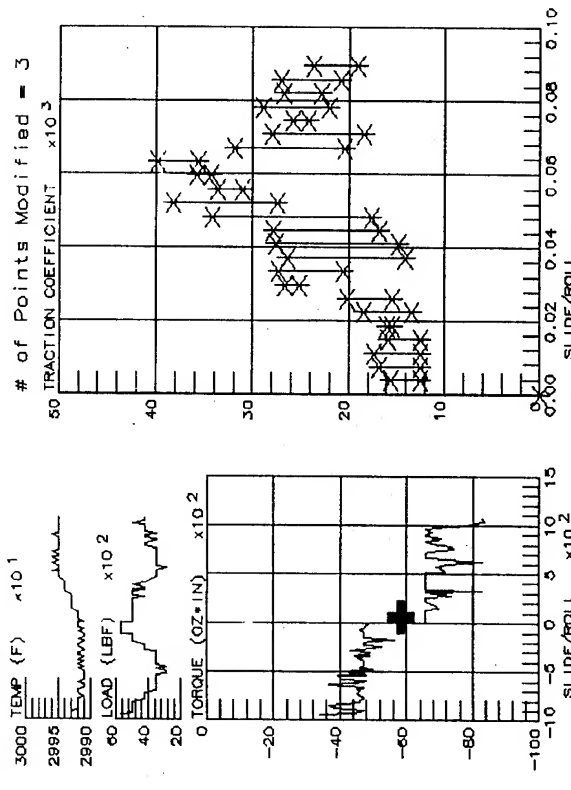


TRACTION DATA

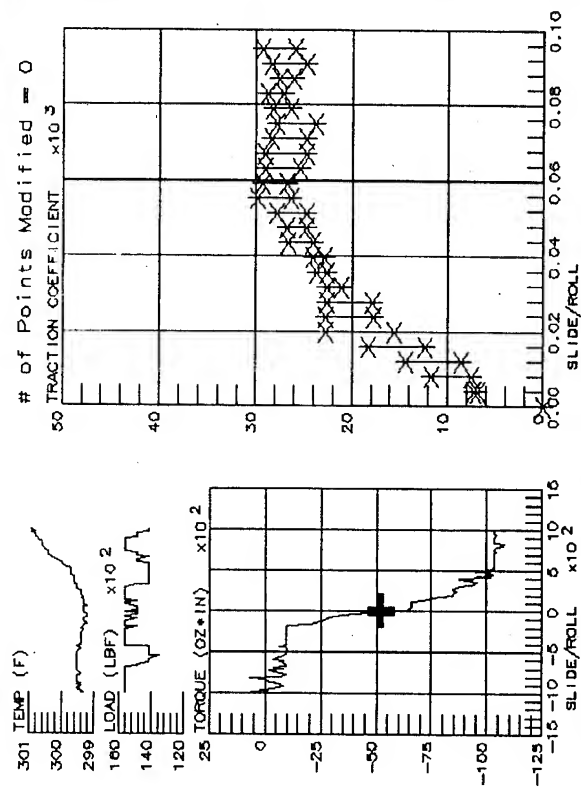


TRACTION DATA

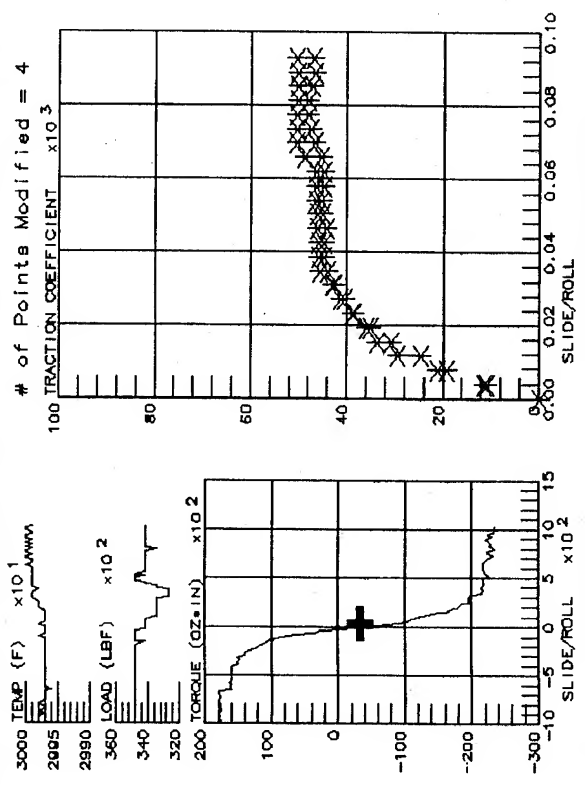
CB 71-6 Krytox 143 ac FILE: 71-6-12x #401
300F 1LBF 1260RPM #15



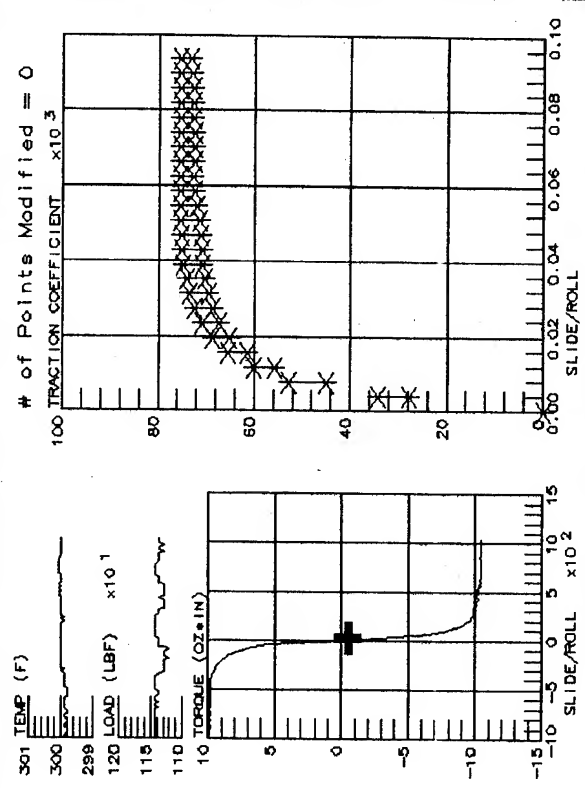
CB 71-6 Krytox 143 ac FILE: 71-6-12x #402
300F 2LBF 1260RPM #16



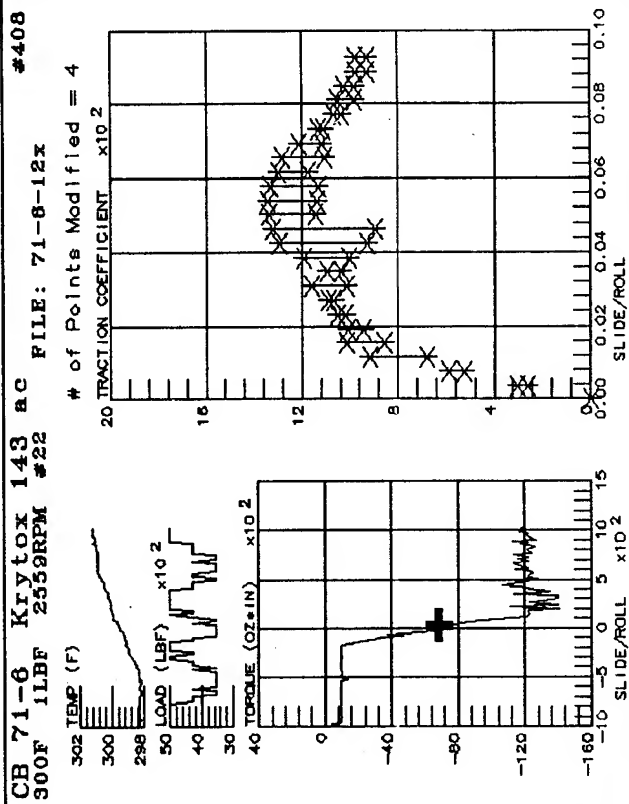
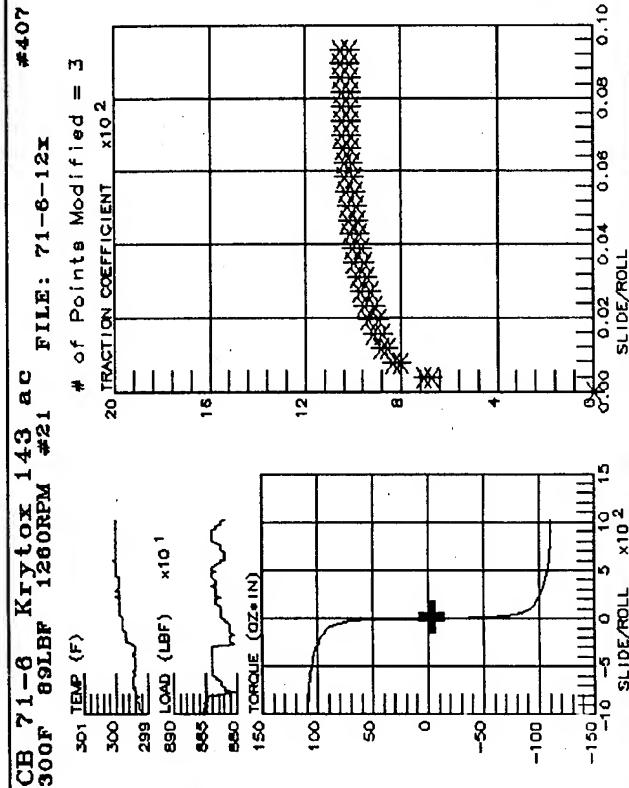
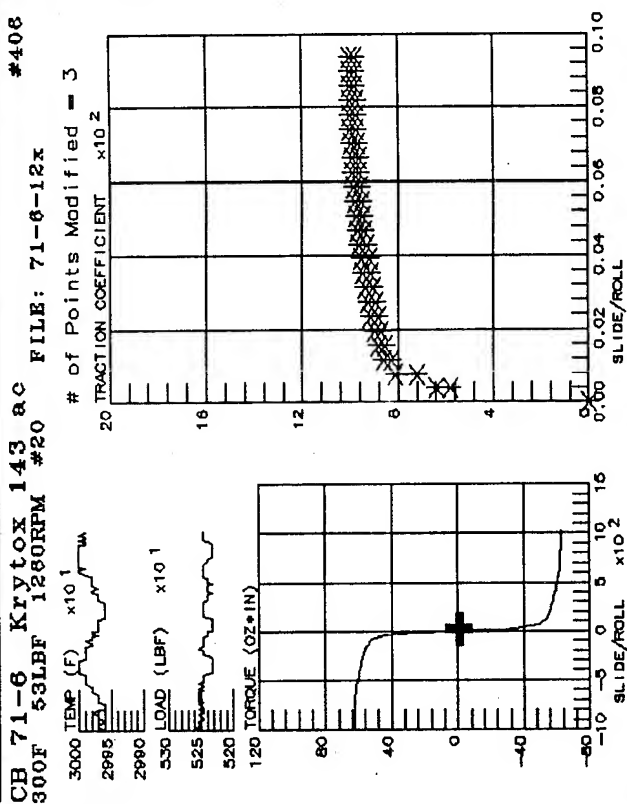
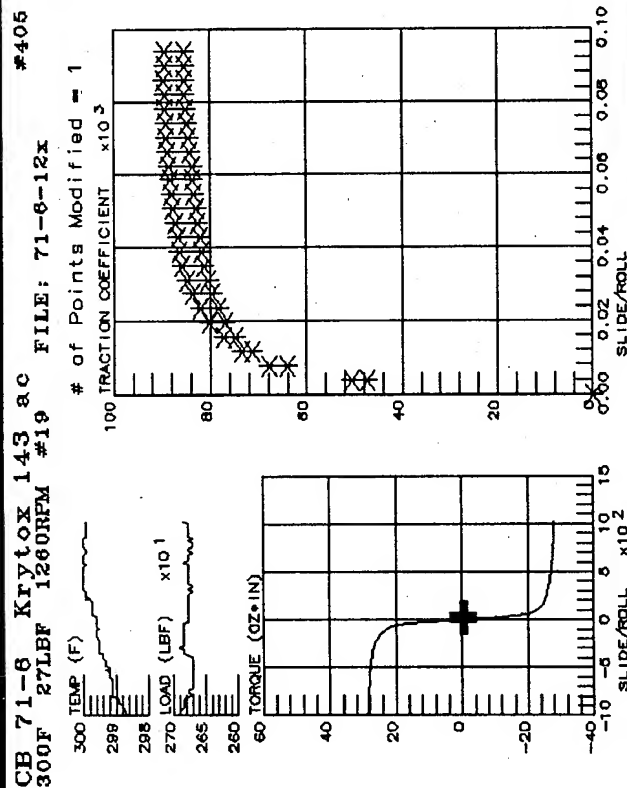
CB 71-6 Krytox 143 ac FILE: 71-6-12x #403
300F 4LBF 1260RPM #17



CB 71-6 Krytox 143 ac FILE: 71-6-12x #404
300F 12LBF 1260RPM #18

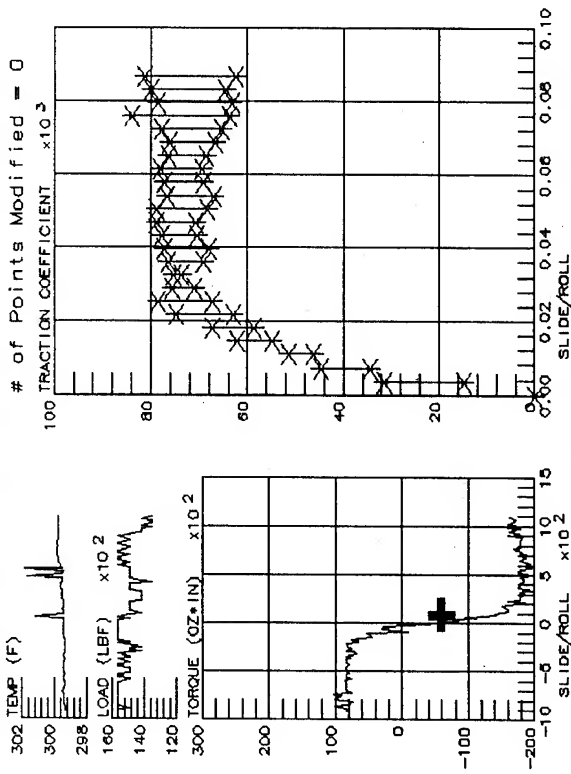


TRACTION DATA

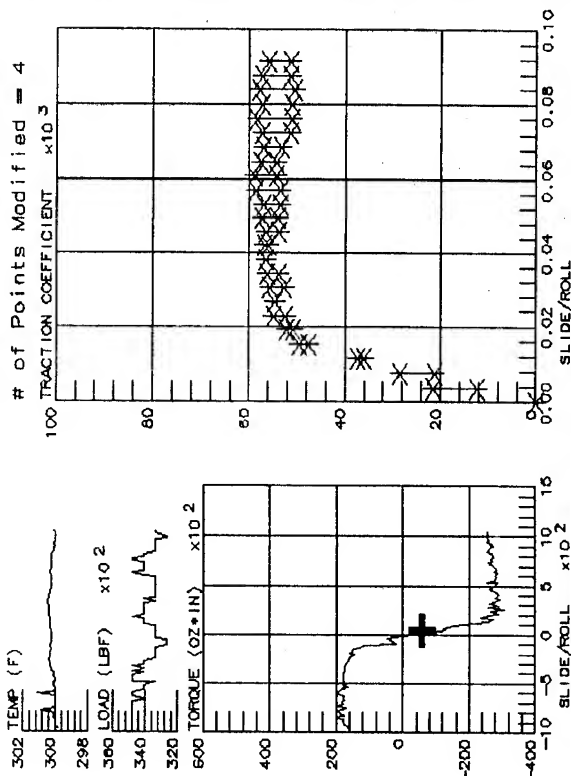


TRACTION DATA

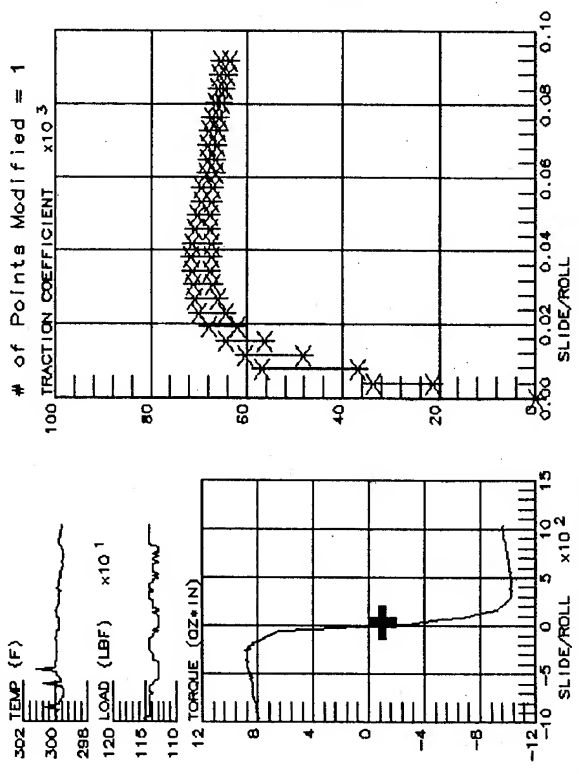
CB 71-6 Krytox 143 ac FILE: 71-6-12x #409
300F 2LBF 2559RPM #23



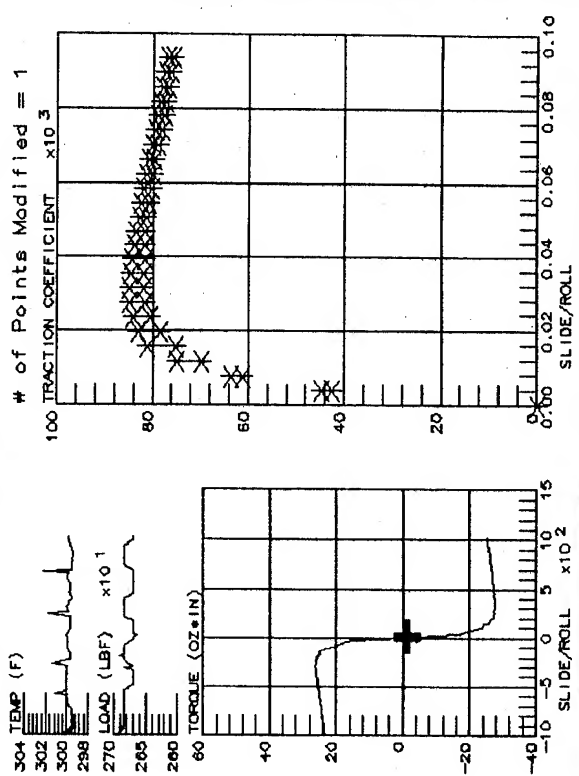
CB 71-6 Krytox 143 ac FILE: 71-6-12x #410
300F 4LBF 2559RPM #24



CB 71-6 Krytox 143 ac FILE: 71-6-12x #411
300F 12LBF 2559RPM #25



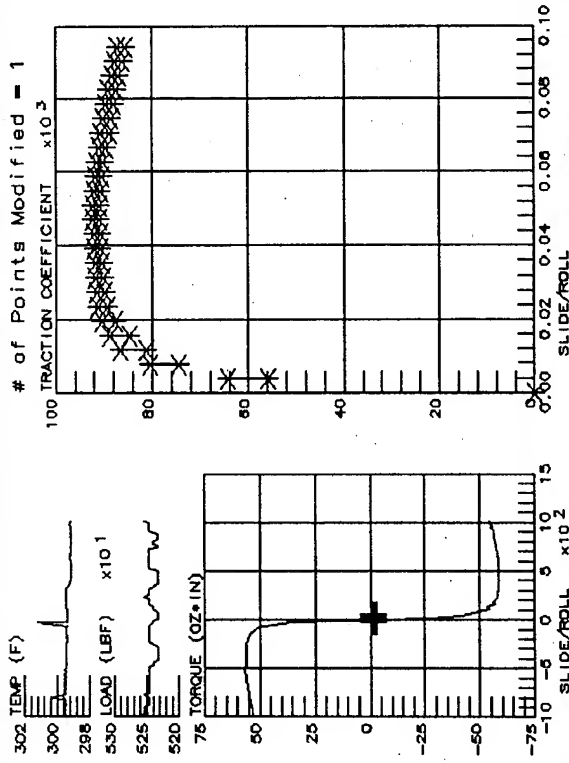
CB 71-6 Krytox 143 ac FILE: 71-6-12x #412
300F 27LBF 2559RPM #26



TRACTION DATA

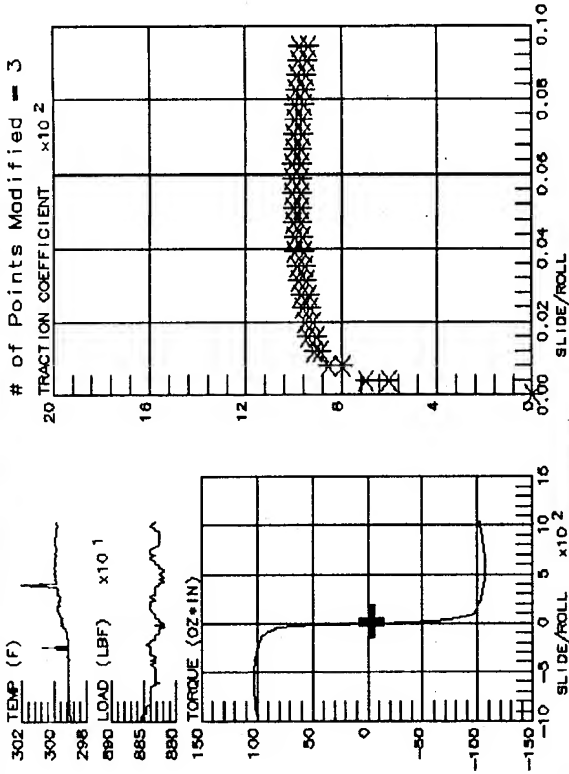
CB 71-6 Krytox 143 ac FILE: 71-6-12x
300F 53LBF 2569RPM #27

#413
of Points Modified = 1



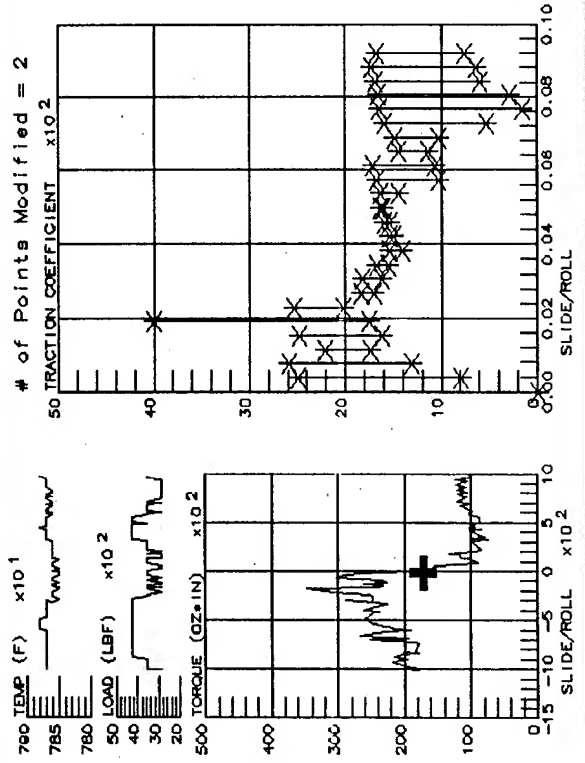
CB 71-6 Krytox 143 ac FILE: 71-6-12x
300F 59LBF 2569RPM #28

#414
of Points Modified = 3



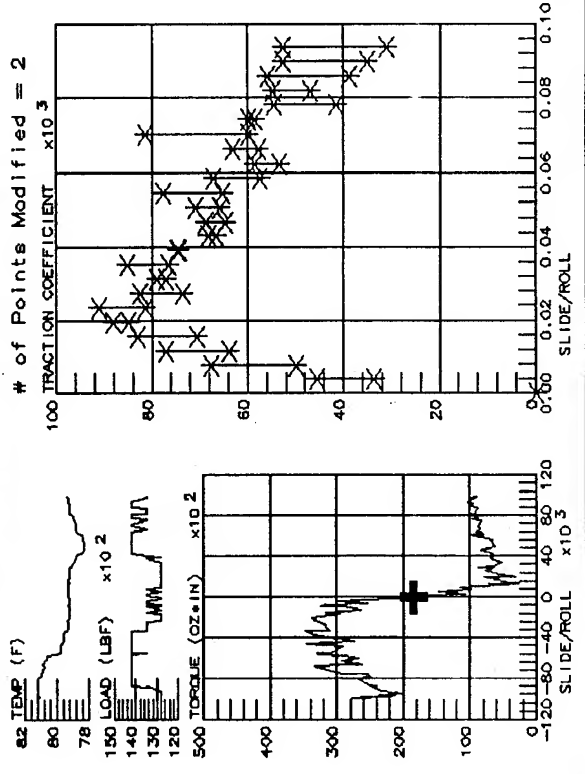
CB 71-6 Krytox 143 ac FILE: 71-6-s1
80F 1LBF 5060RPM #1

#415
of Points Modified = 2

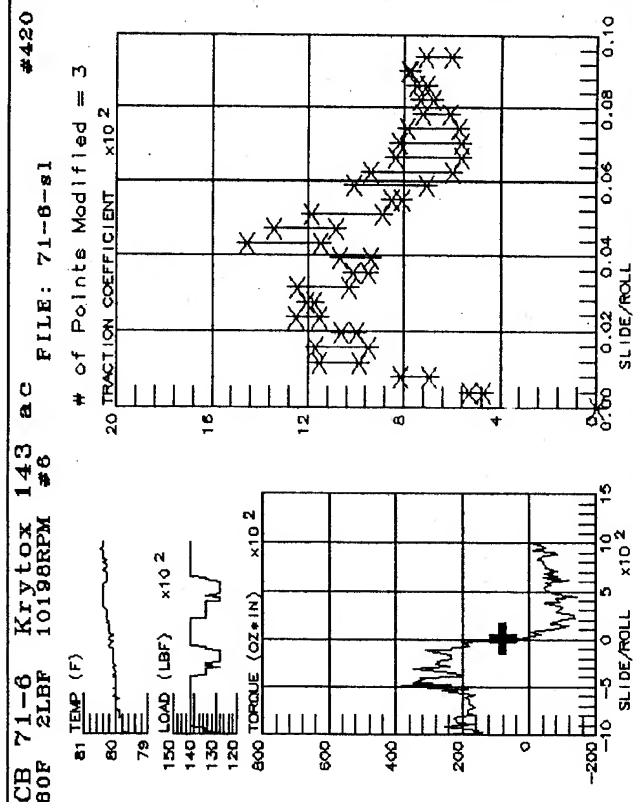
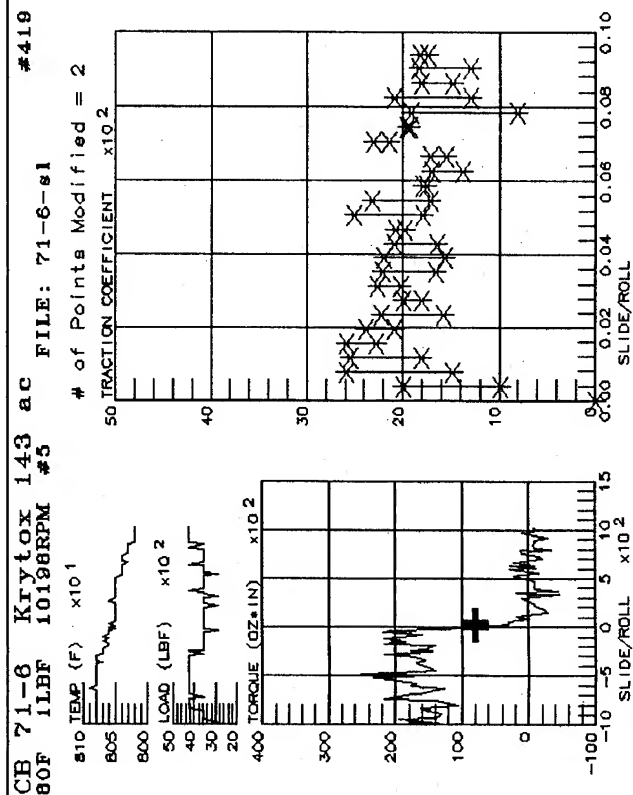
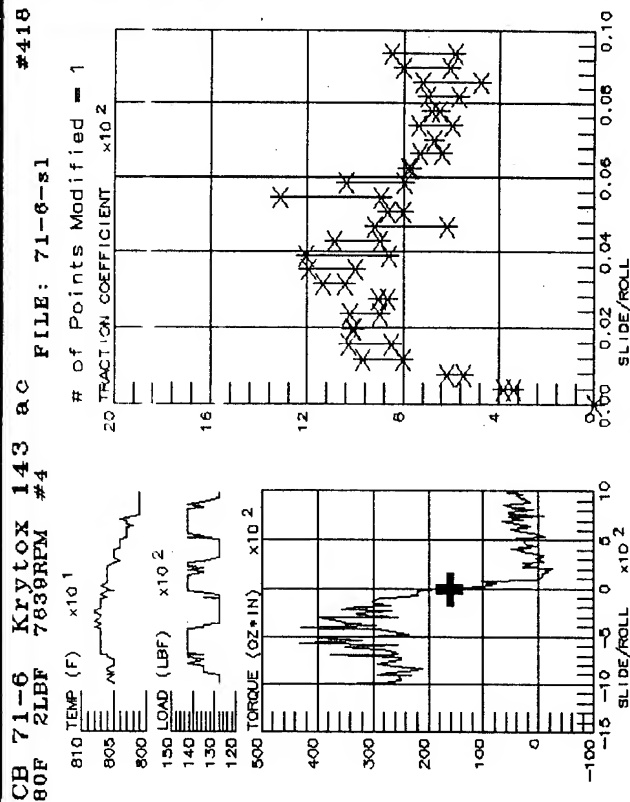
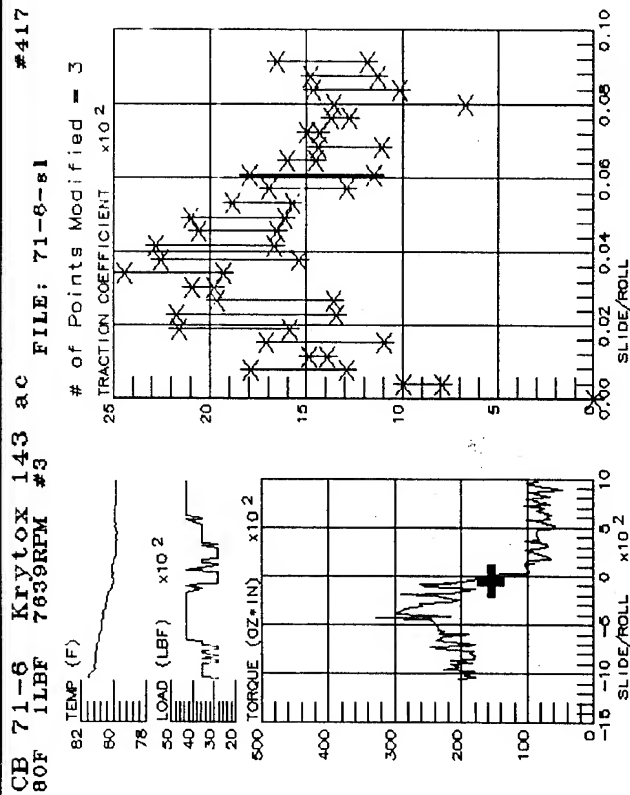


CB 71-6 Krytox 143 ac FILE: 71-6-s1
80F 2LBF 5060RPM #2

#416
of Points Modified = 2



TRACTION DATA



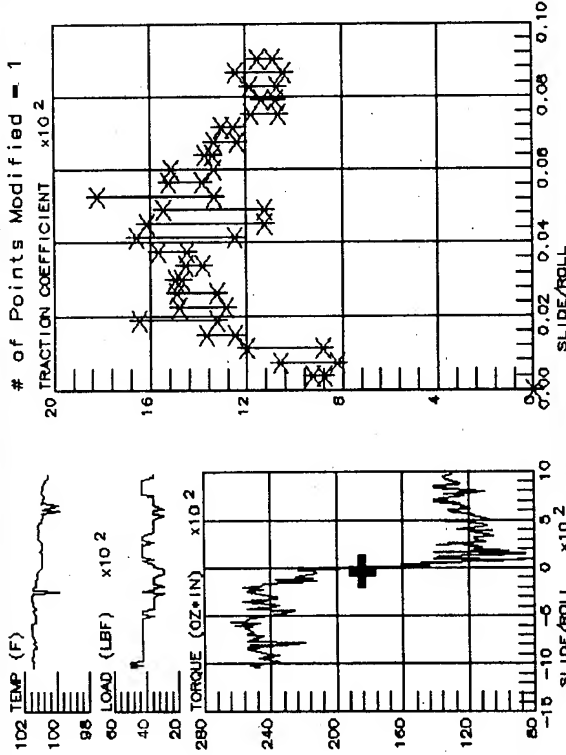
TRACTION DATA

CB 71-6 Krytox 143 ac
100F 1LBF 5080RPM #7

#421

FILE: 71-6-s1

of Points Modified = 1

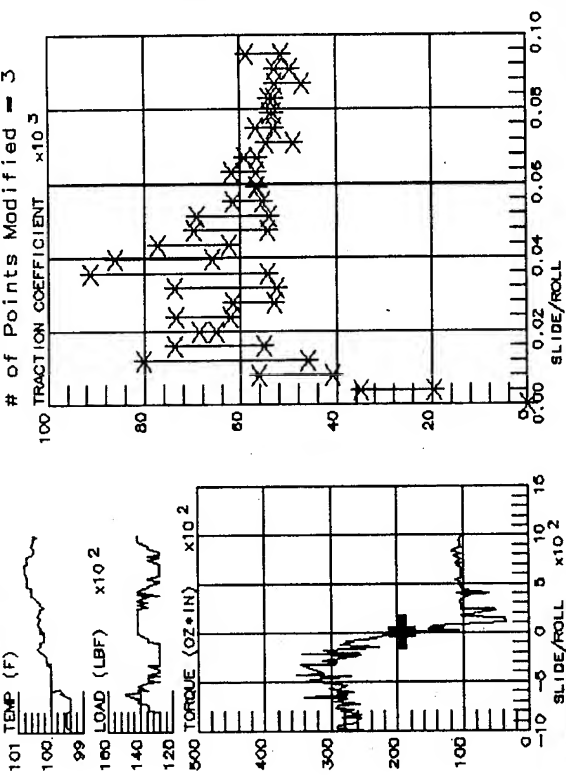


CB 71-6 Krytox 143 ac
100F 2LBF 5080RPM #8

#422

FILE: 71-6-s1

of Points Modified = 3

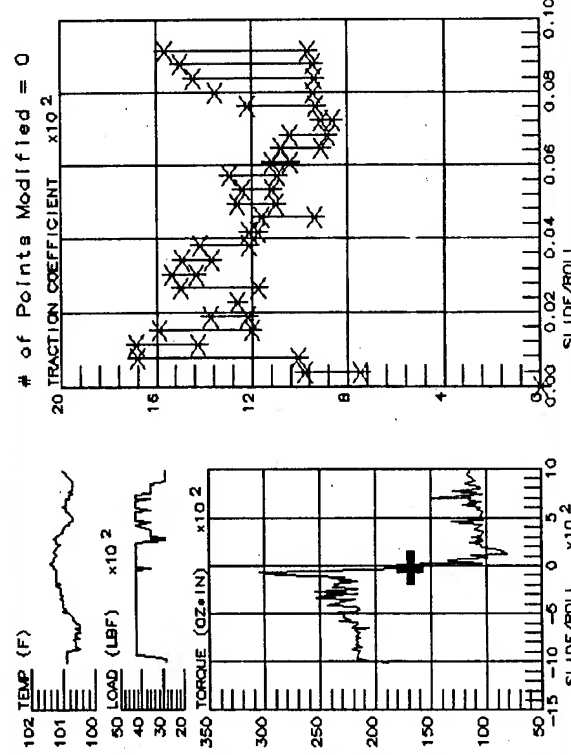


CB 71-6 Krytox 143 ac
100F 1LBF 7639RPM #9

#423

FILE: 71-6-s1

of Points Modified = 0

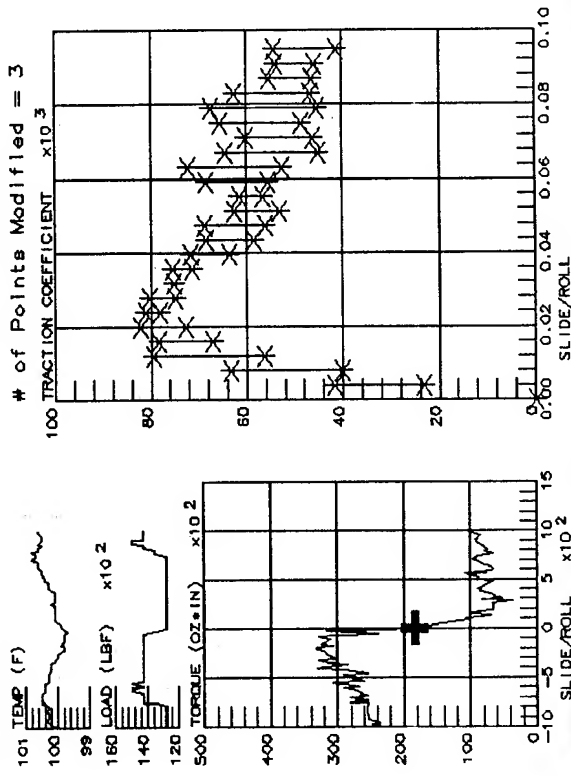


CB 71-6 Krytox 143 ac
100F 2LBF 7639RPM #10

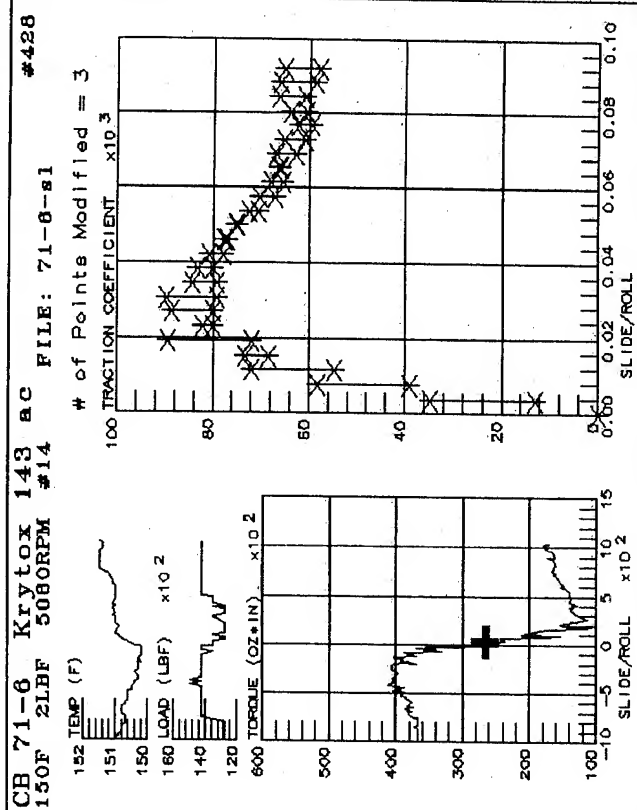
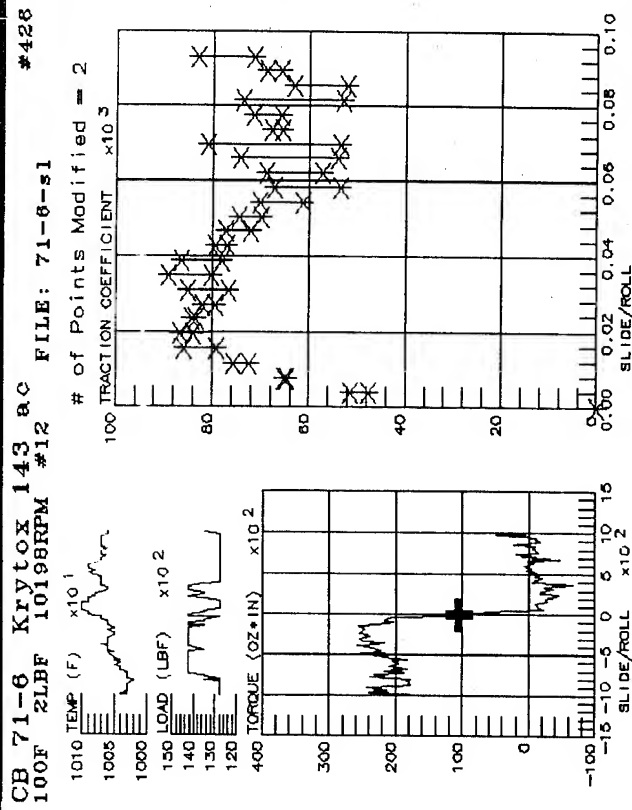
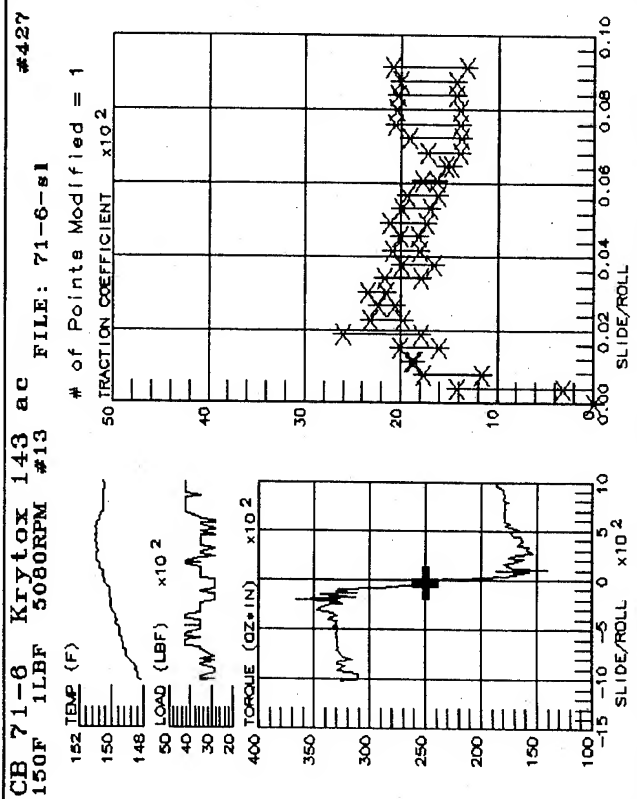
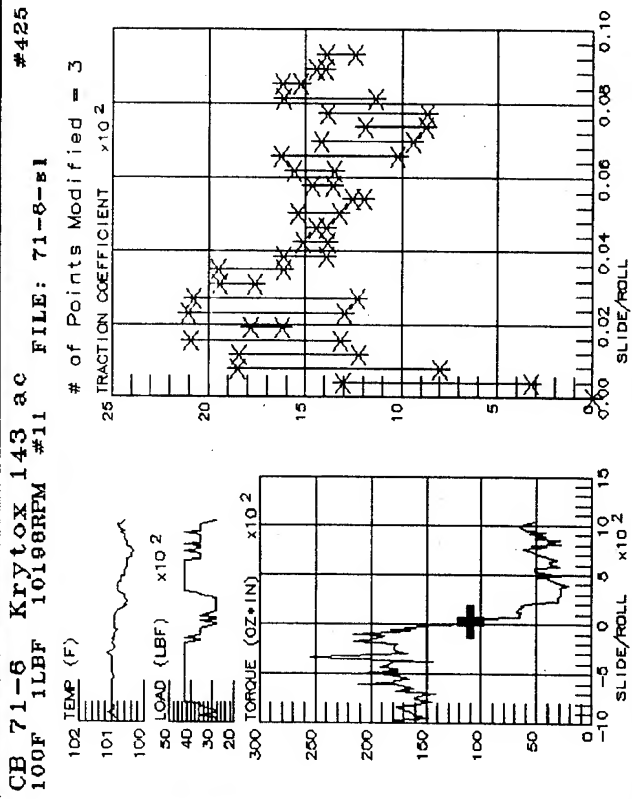
#424

FILE: 71-6-s1

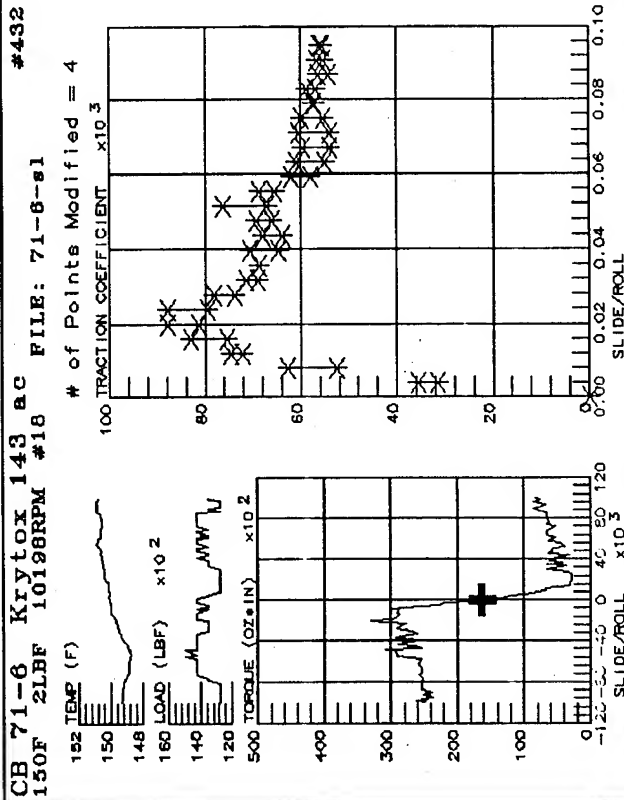
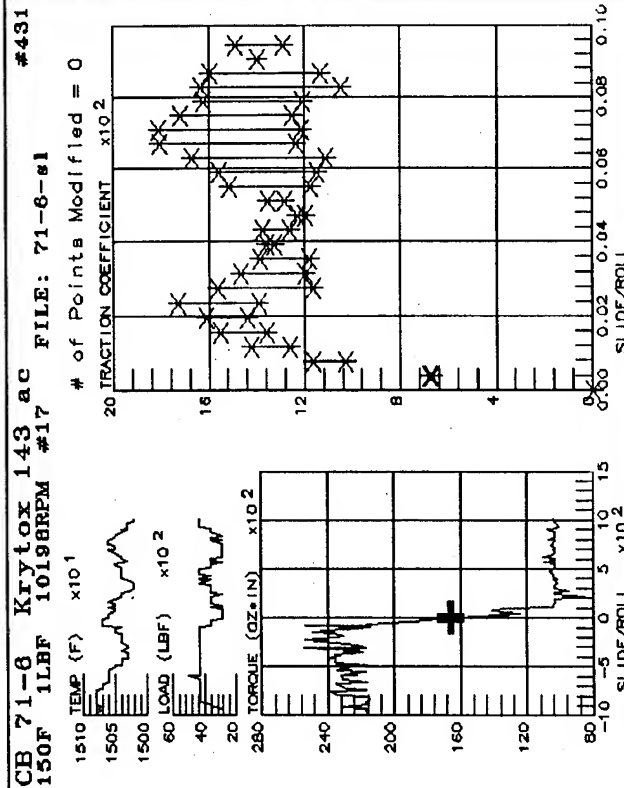
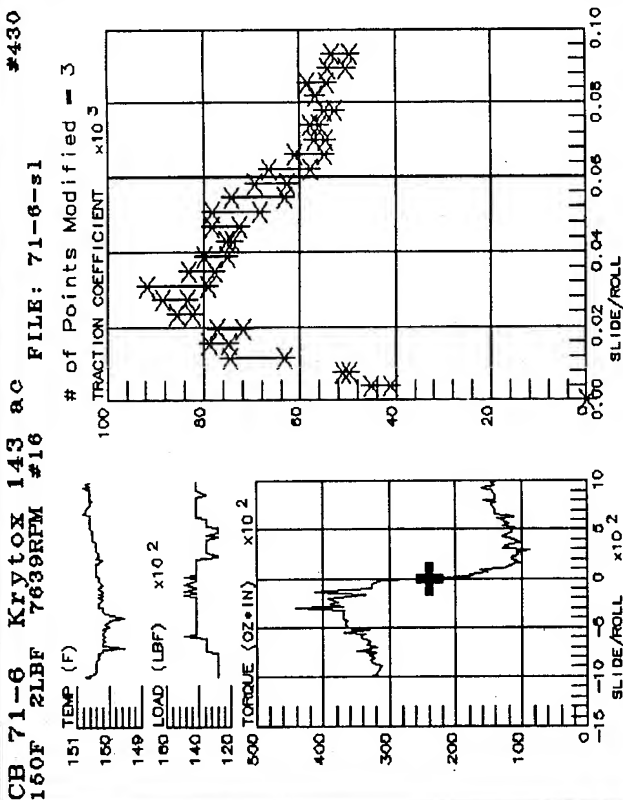
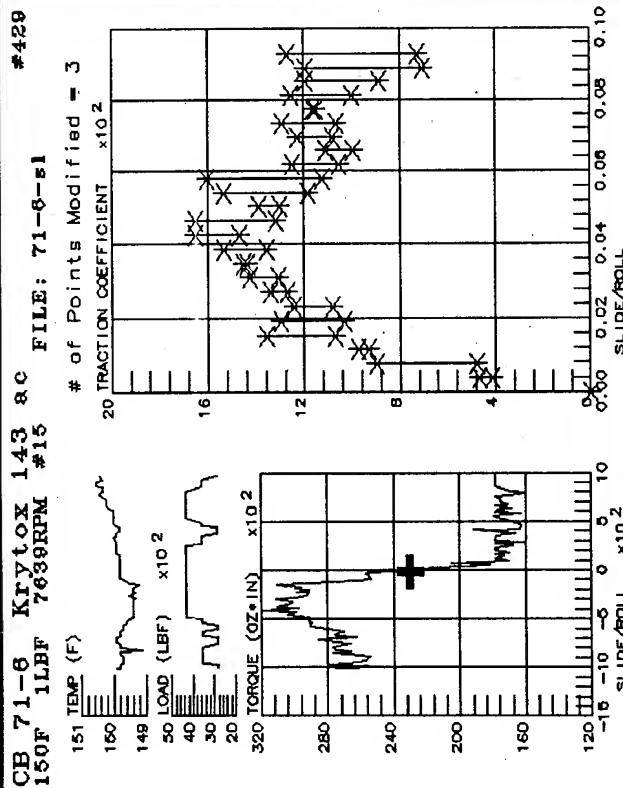
of Points Modified = 3



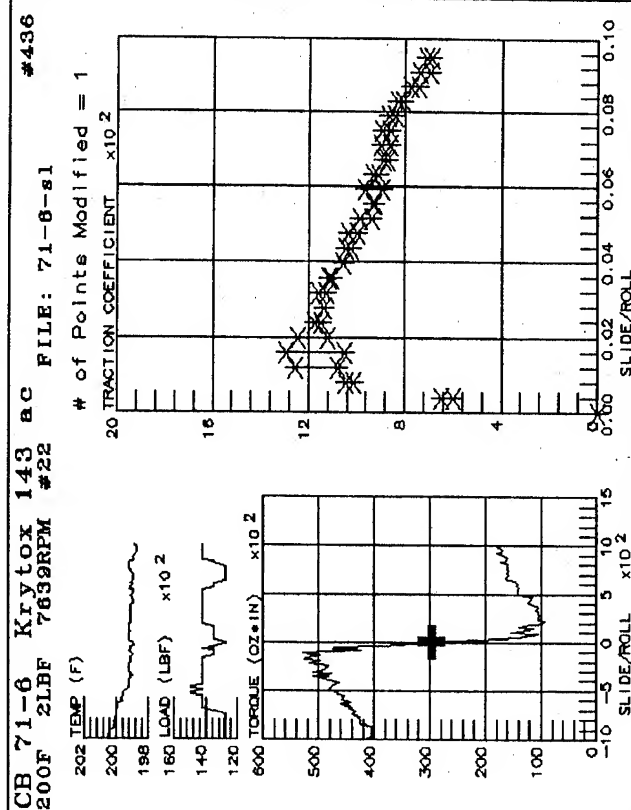
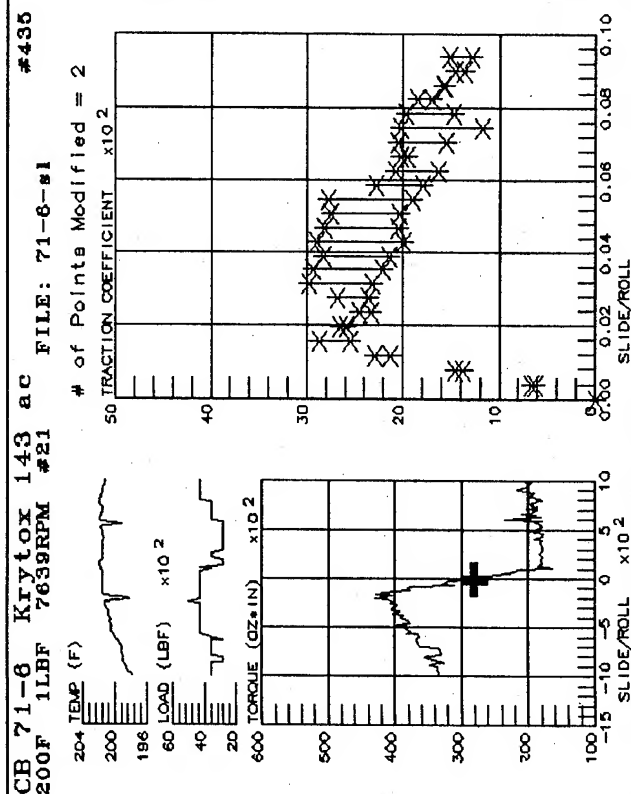
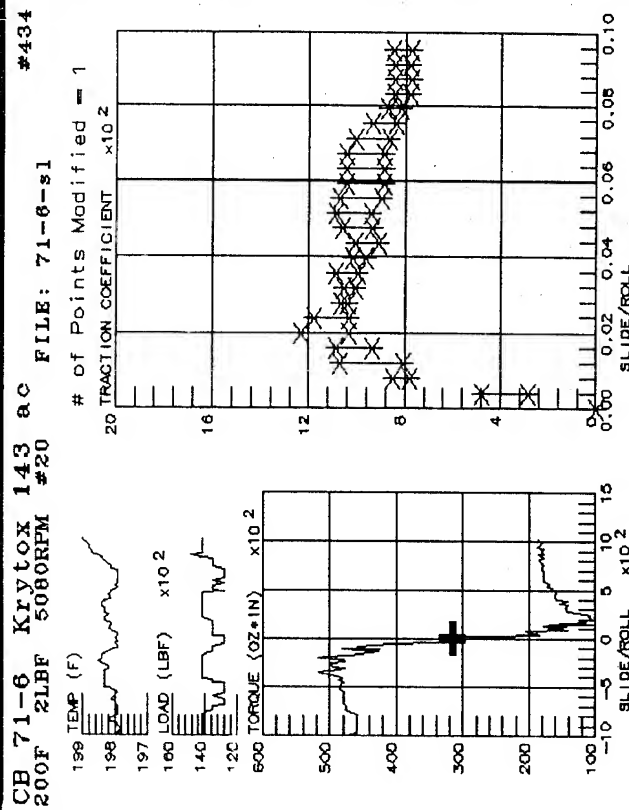
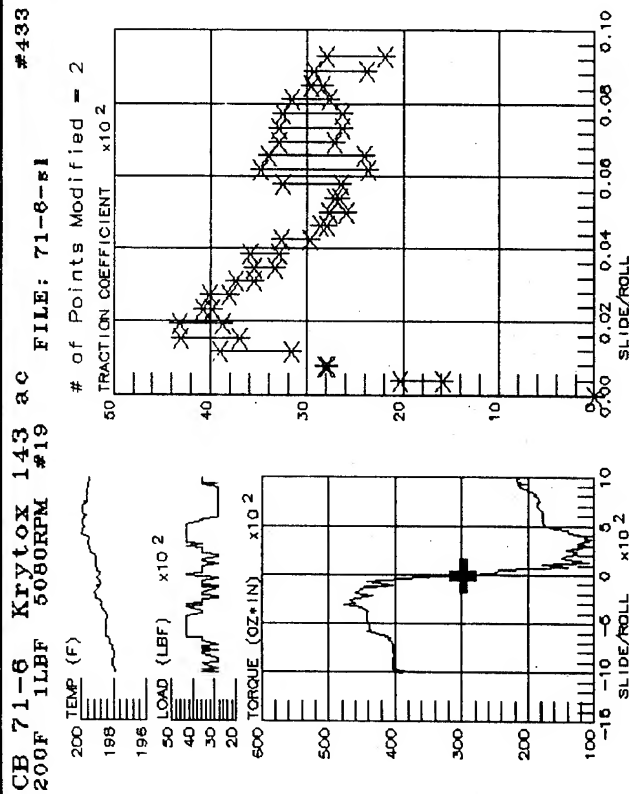
TRACTION DATA



TRACTION DATA

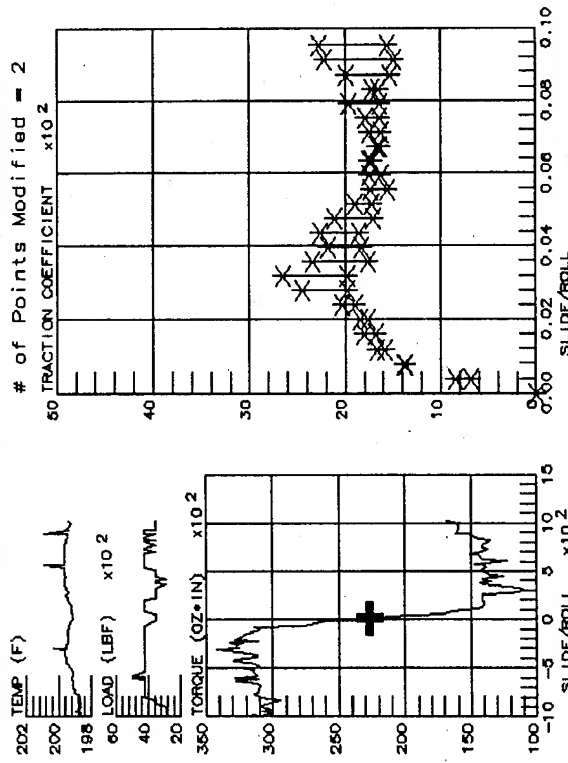


TRACTION DATA

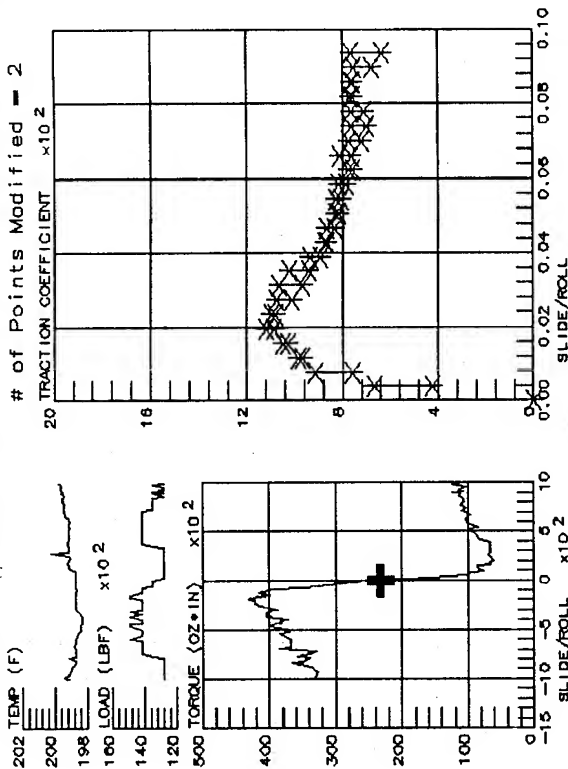


TRACTION DATA

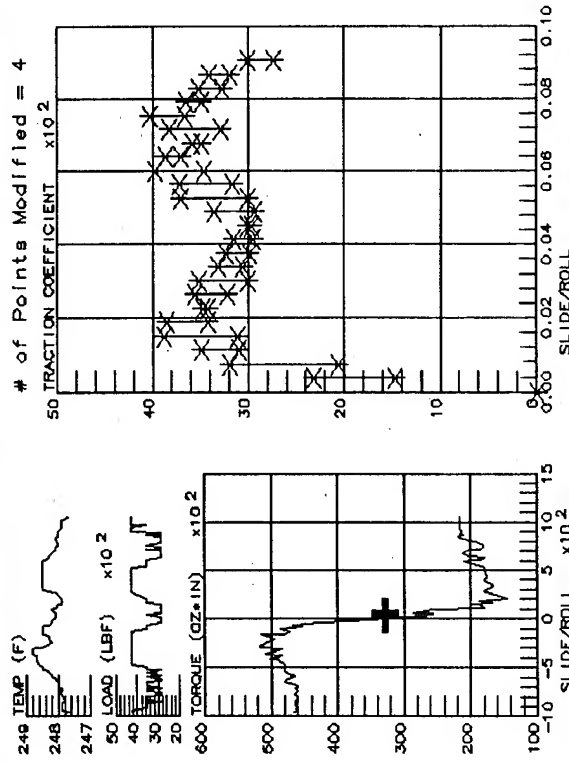
CB 71-6 Krytox 143 ac FILE: 71-6-sl #437
200F 1LBF 1019RPM #23



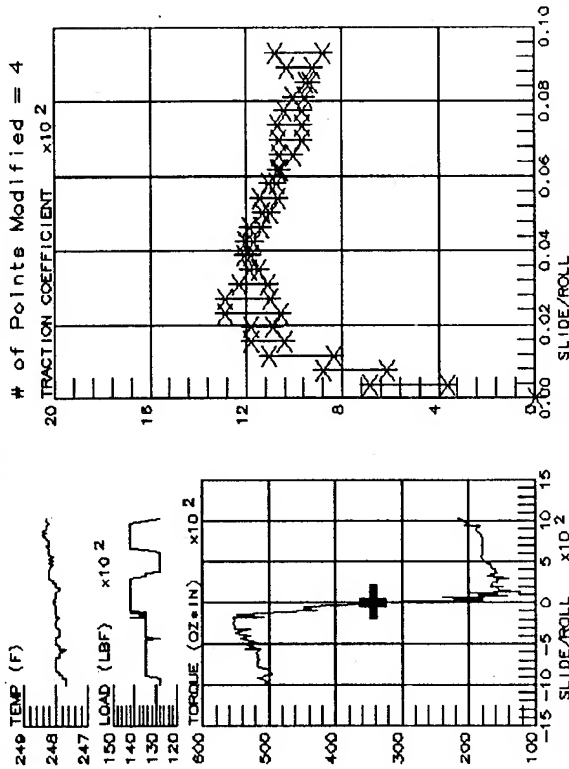
CB 71-6 Krytox 143 ac FILE: 71-6-sl #438
200F 2LBF 1019RPM #24



CB 71-6 Krytox 143 ac FILE: 71-6-sl #439
250F 1LBF 5080RPM #25



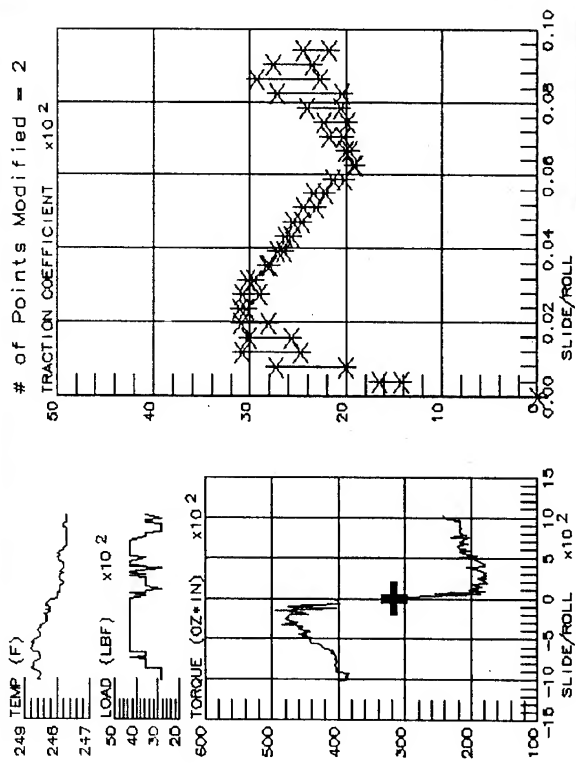
CB 71-6 Krytox 143 ac FILE: 71-6-sl #440
250F 2LBF 5080RPM #28



TRACTION DATA

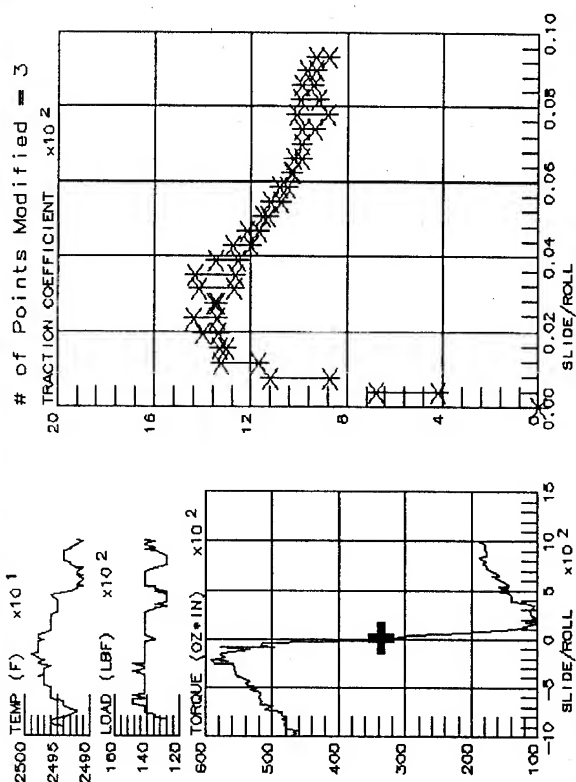
CB 71-6 Krytox 143 ac FILE: 71-6-sl #441
250F 1LBF 7639RPM #27

of Points Modified = 2



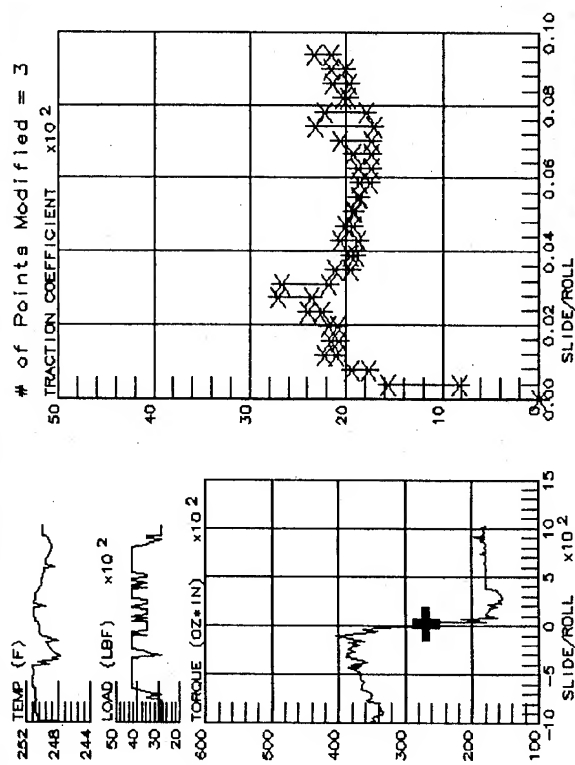
CB 71-6 Krytox 143 ac FILE: 71-6-sl #442
250F 2LBF 7639RPM #28

of Points Modified = 3



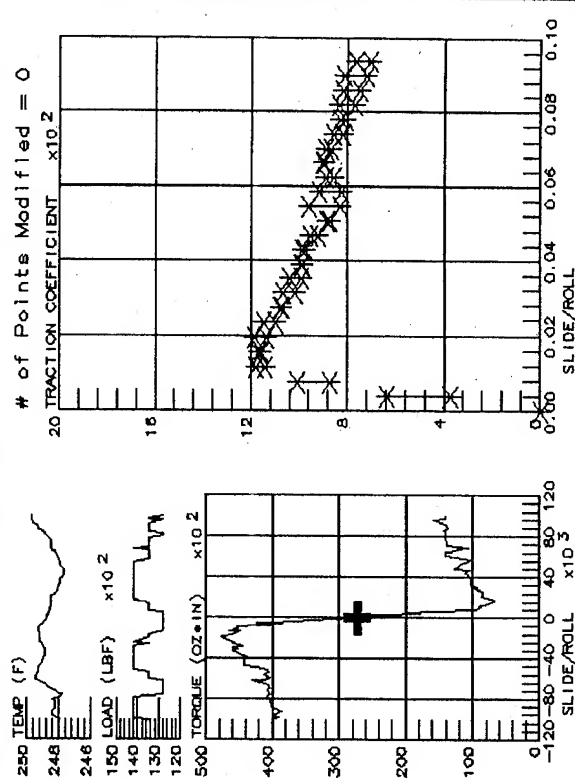
CB 71-6 Krytox 143 ac FILE: 71-6-sl #443
250F 1LBF 10198RPM #29

of Points Modified = 3



CB 71-6 Krytox 143 ac FILE: 71-6-sl #444
250F 2LBF 10198RPM #30

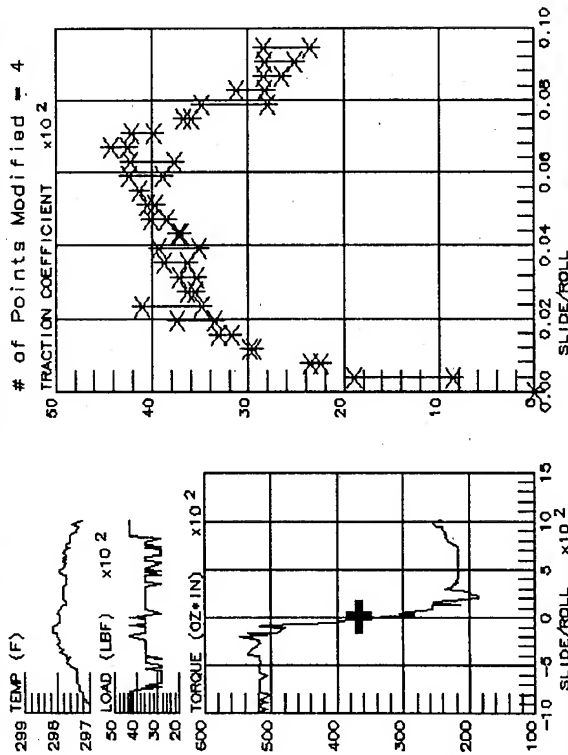
of Points Modified = 0



TRACTION DATA

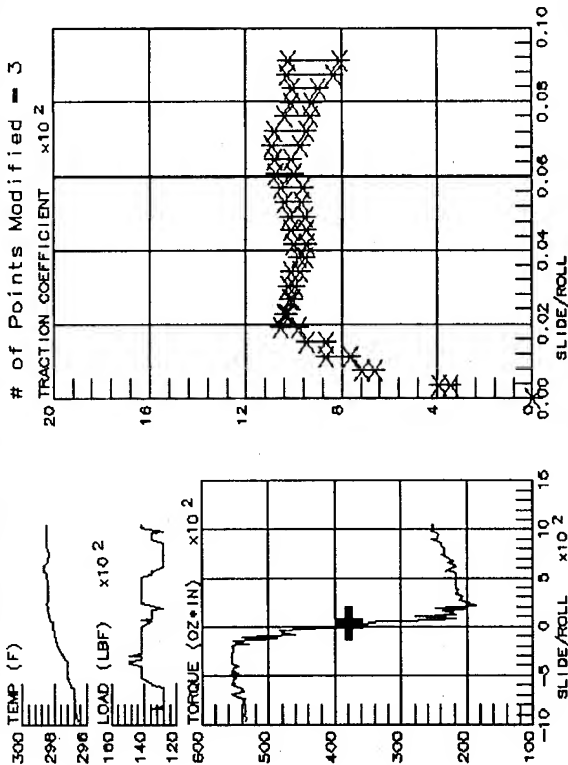
CB 71-6 Krytox 143 ac FILE: 71-6-s1 #445
300F 1LBF 5080RPM #31

of Points Modified = 4



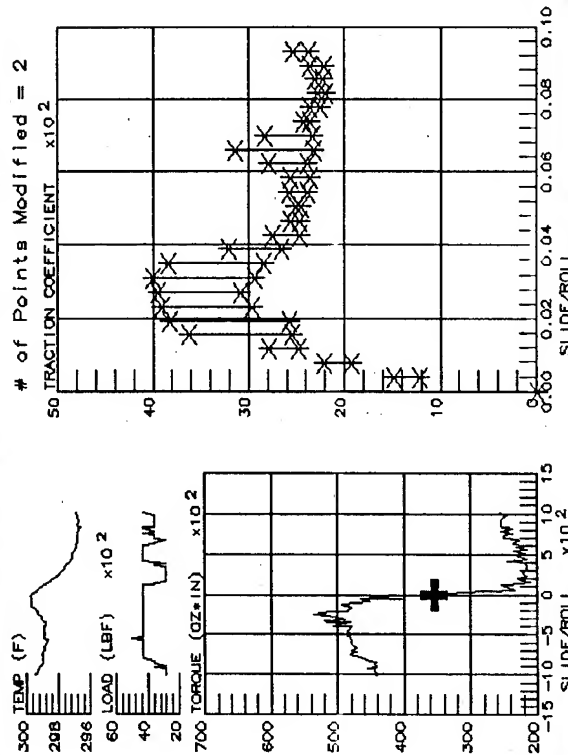
CB 71-6 Krytox 143 ac FILE: 71-6-s1 #446
300F 2LBF 5080RPM #32

of Points Modified = 3



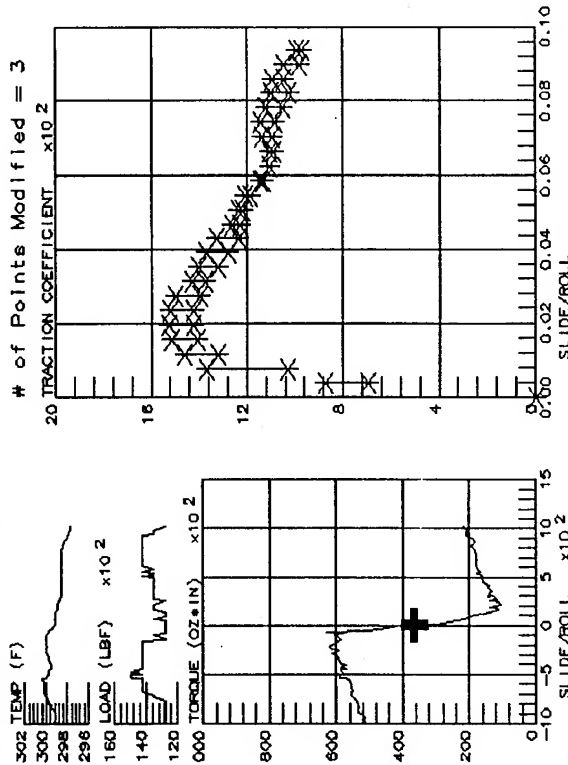
CB 71-6 Krytox 143 ac FILE: 71-6-s1 #447
300F 1LBF 7639RPM #33

of Points Modified = 2

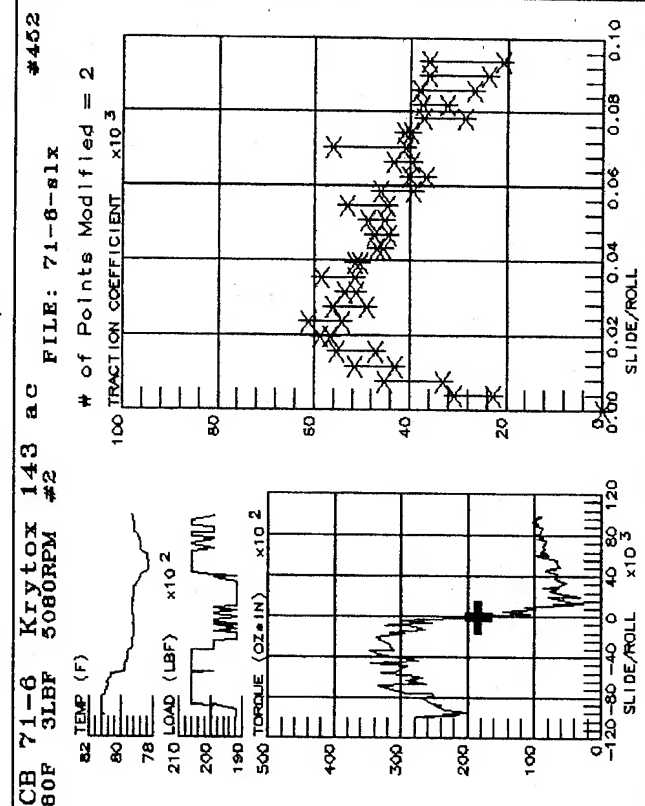
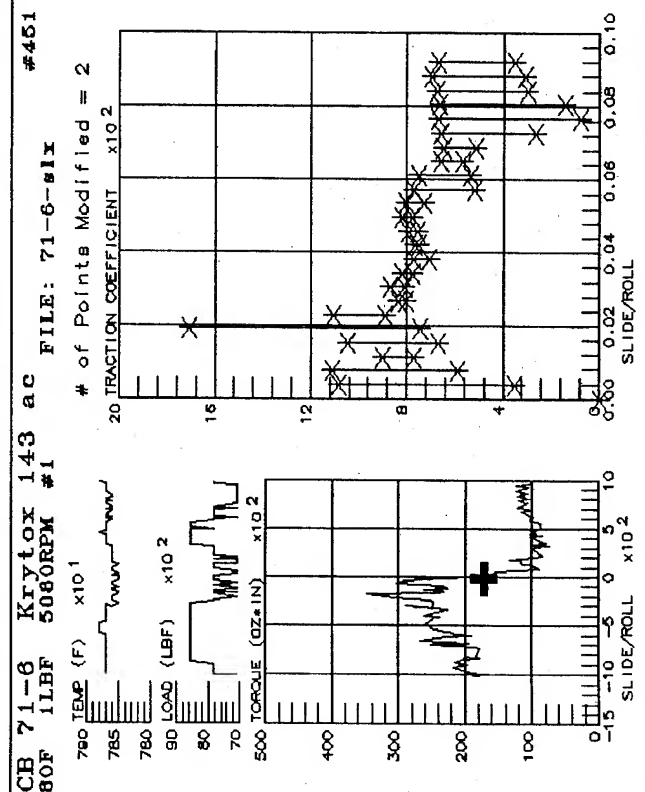
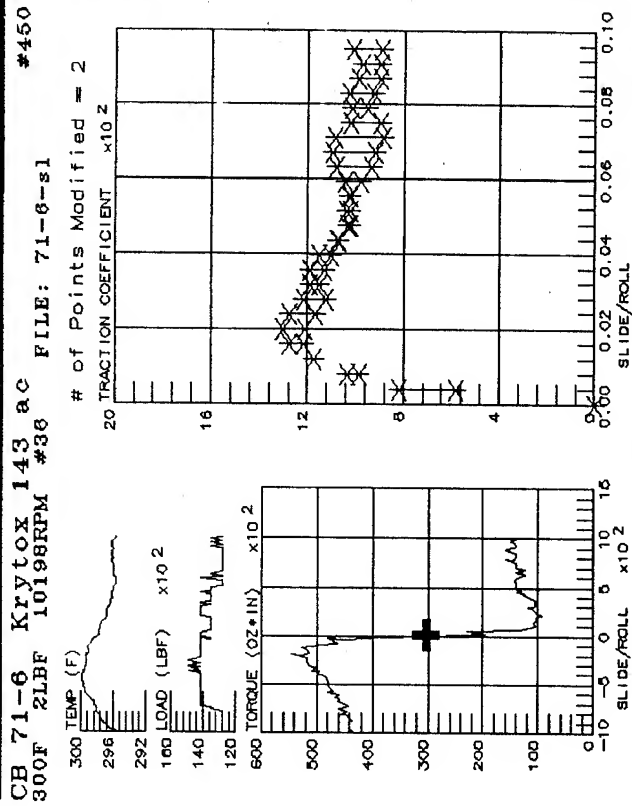
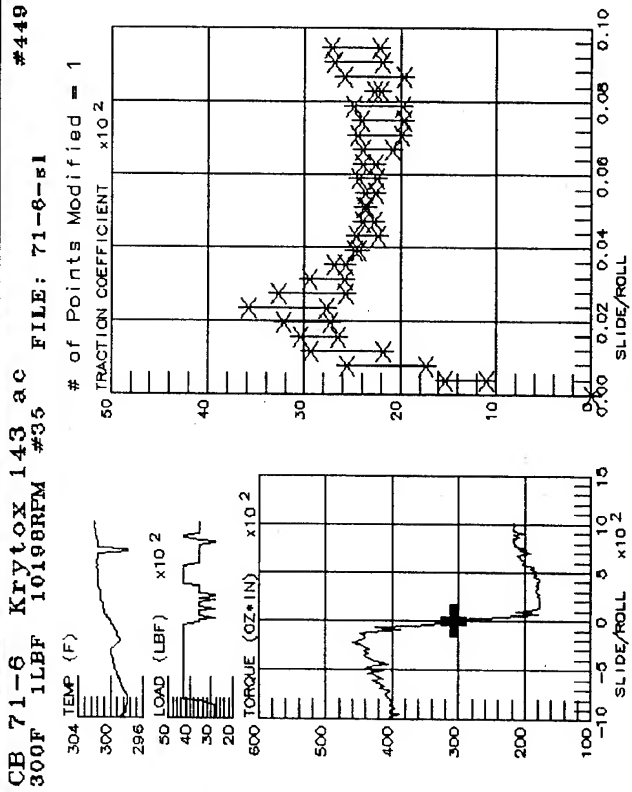


CB 71-6 Krytox 143 ac FILE: 71-6-s1 #448
300F 2LBF 7639RPM #34

of Points Modified = 3



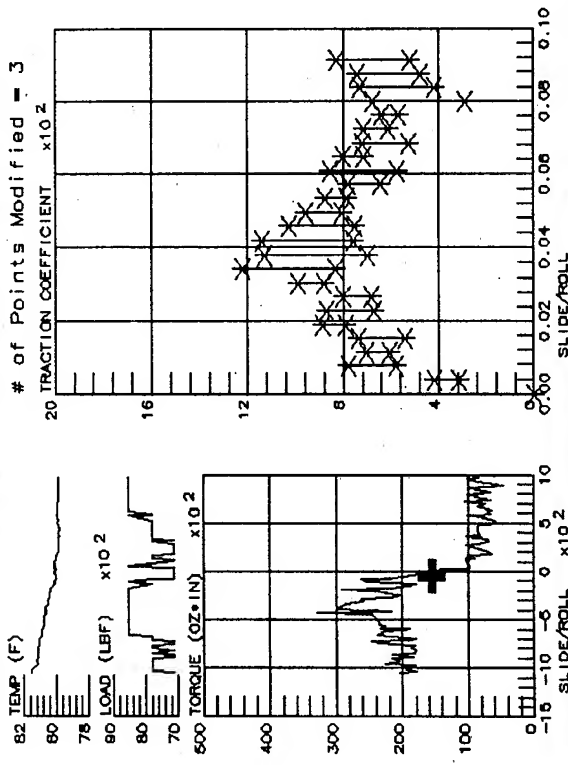
TRACTION DATA



TRACTION DATA

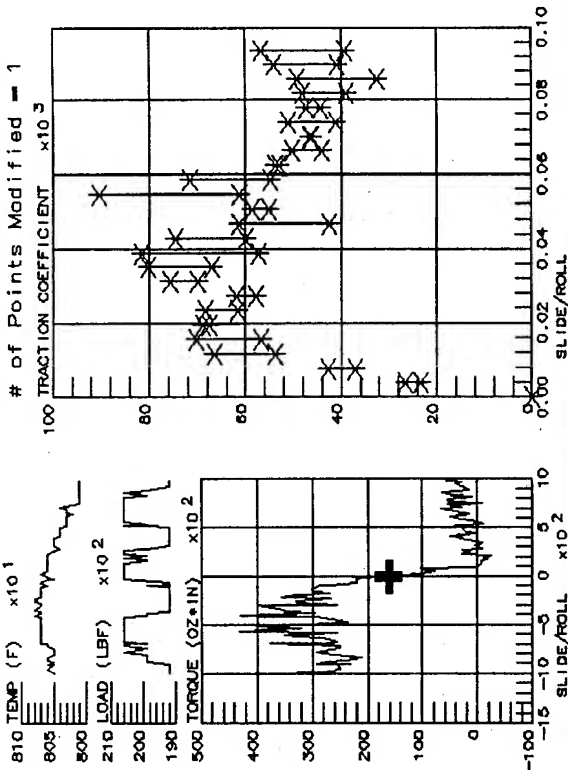
CB 71-6 Krytox 143 ac FILE: 71-6-slx #453
80F 1LBF 7639RPM #3

of Points Modified = 3



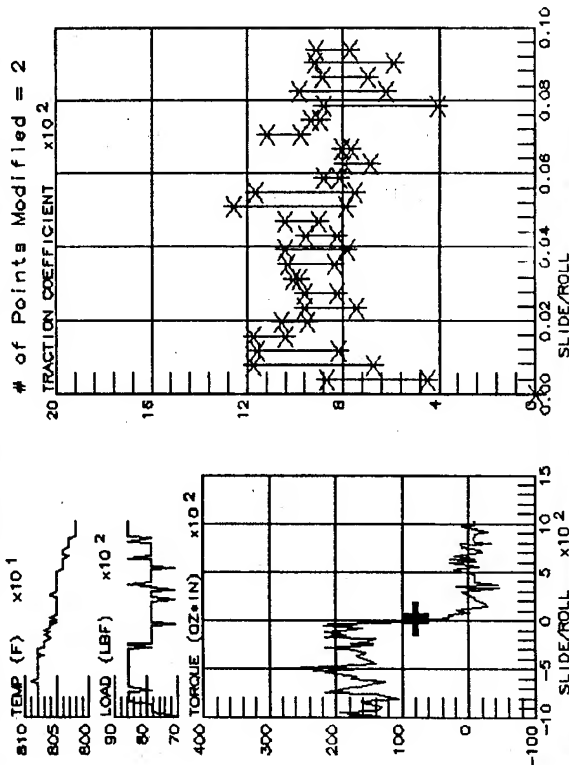
CB 71-6 Krytox 143 ac FILE: 71-6-slx #454
80F 3LBF 7639RPM #4

of Points Modified = 1



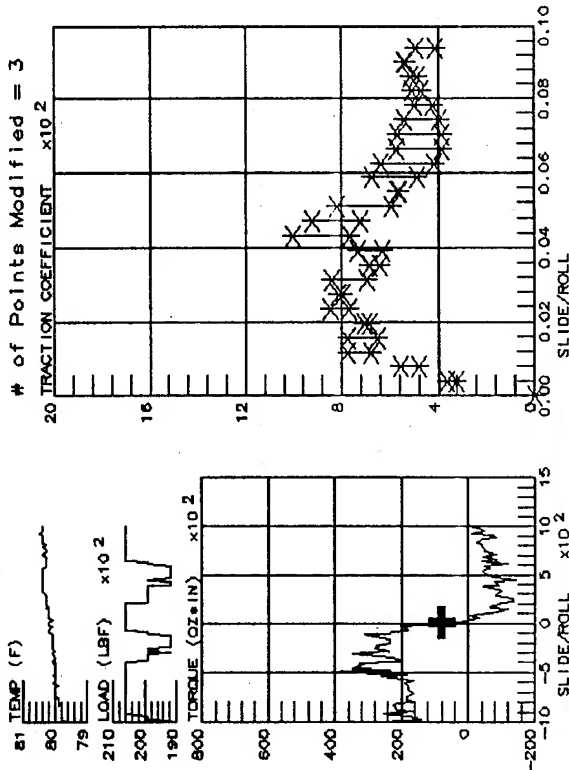
CB 71-6 Krytox 143 ac FILE: 71-6-slx #455
80F 1LBF 10198RPM #5

of Points Modified = 2

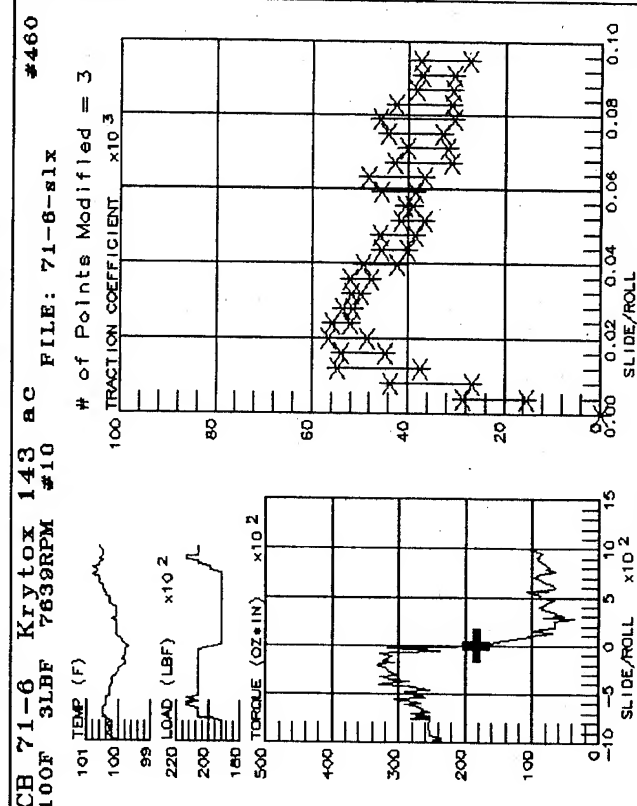
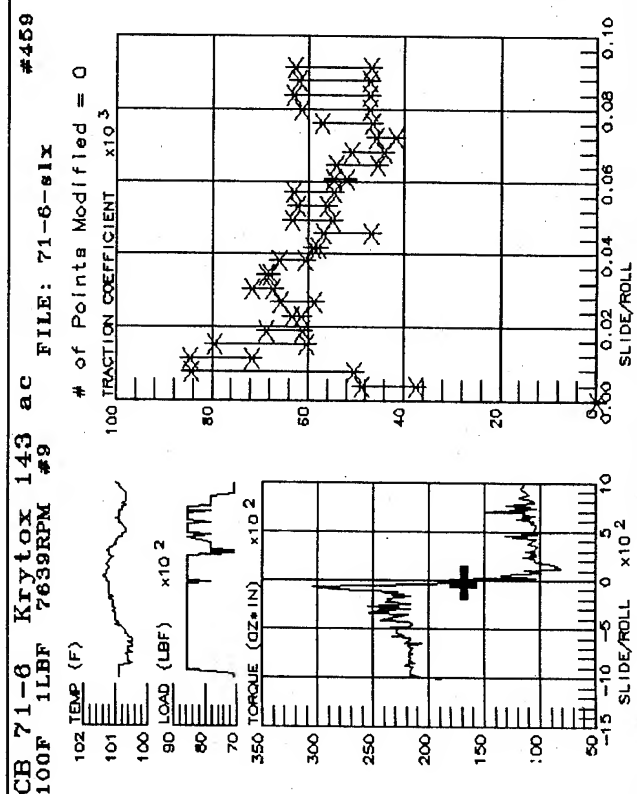
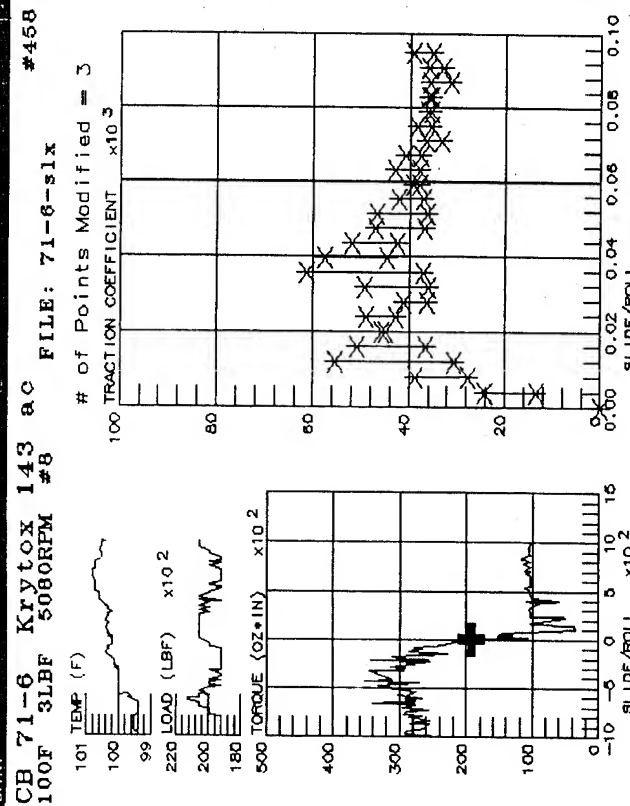
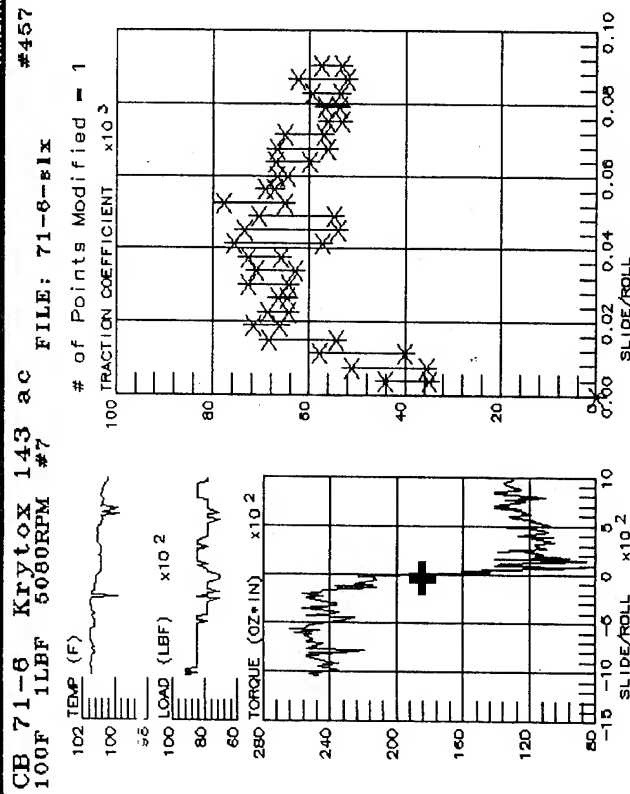


CB 71-6 Krytox 143 ac FILE: 71-6-slx #456
80F 3LBF 10198RPM #6

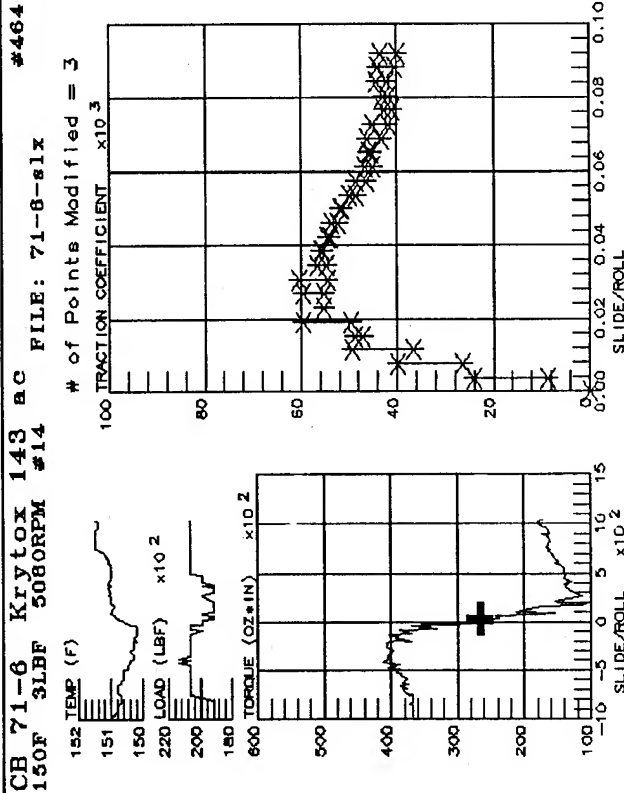
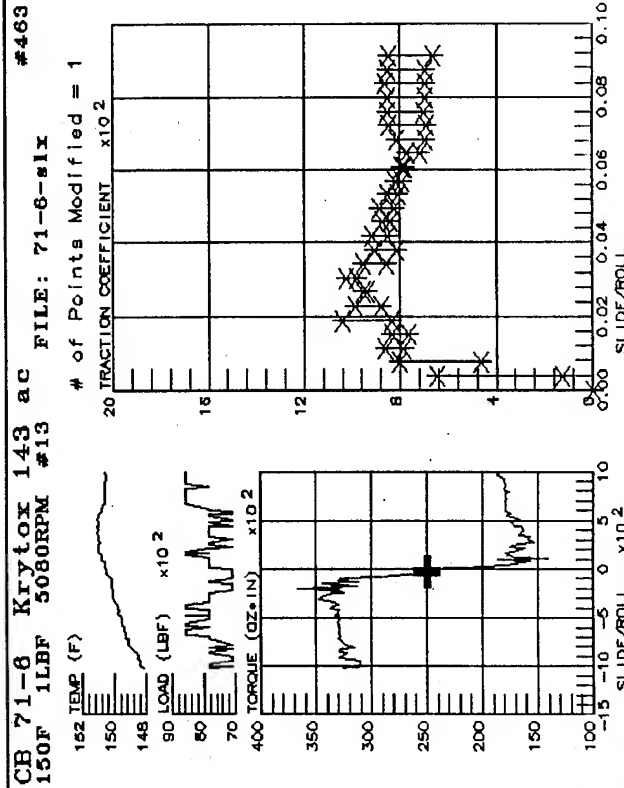
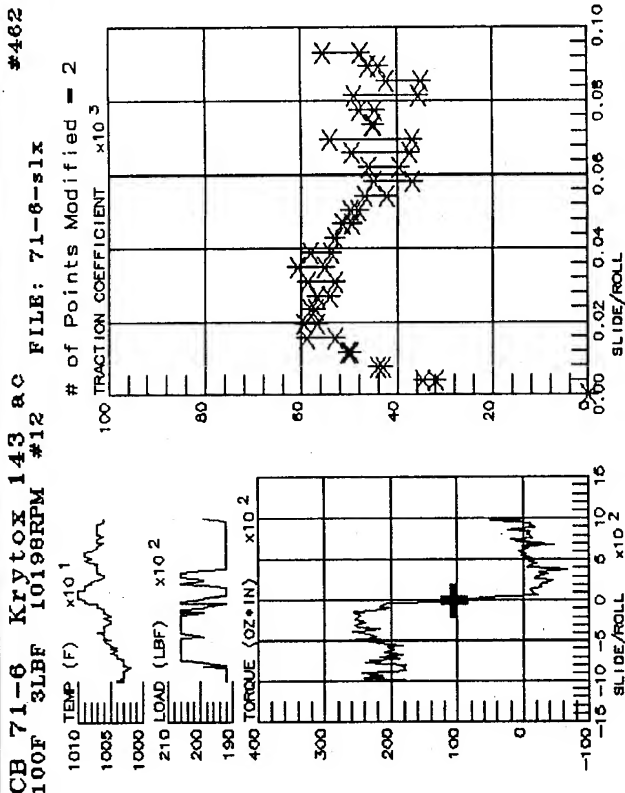
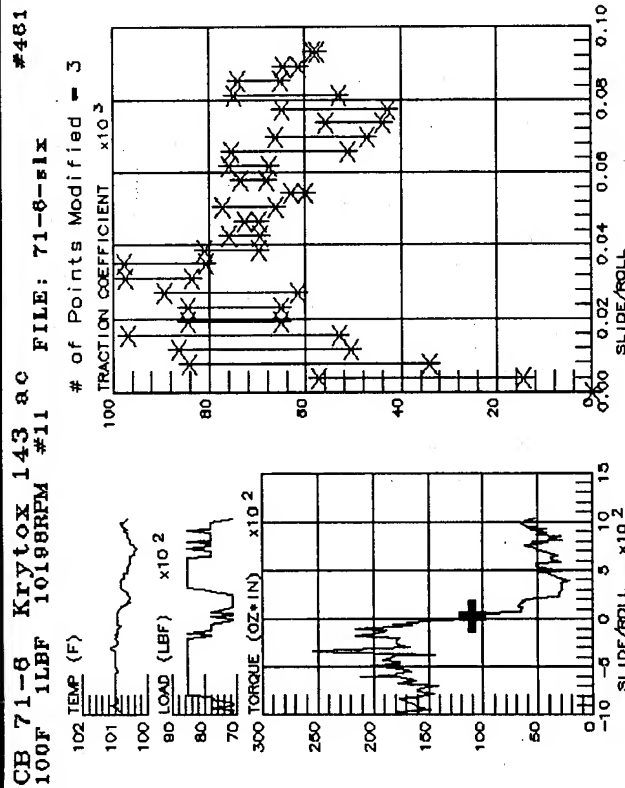
of Points Modified = 3



TRACTION DATA



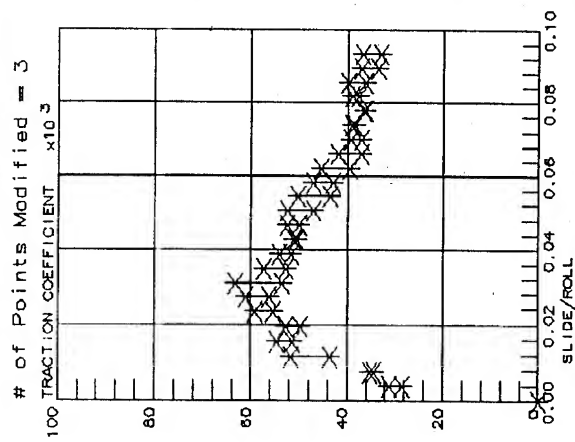
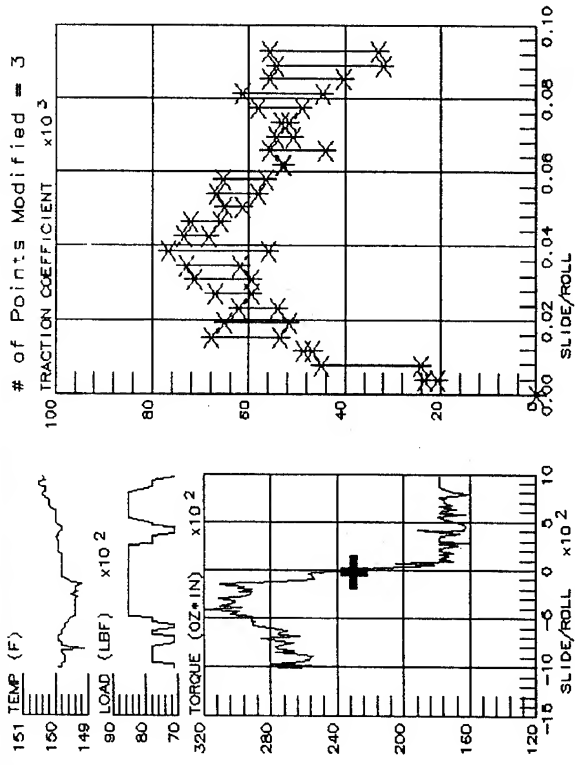
TRACTION DATA



TRACTION DATA

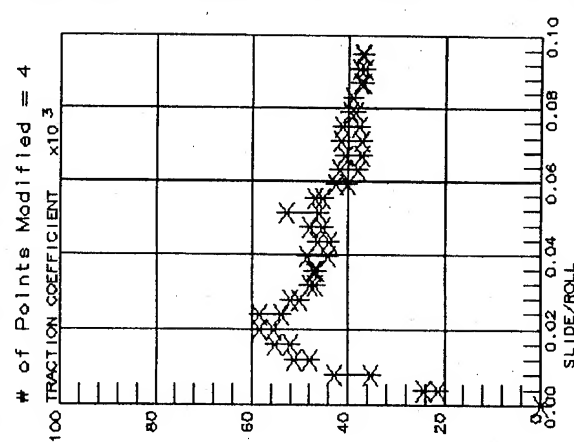
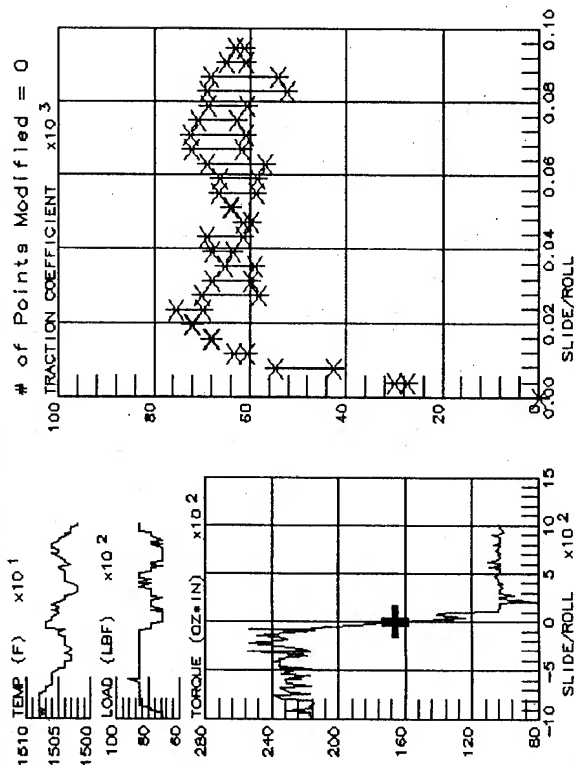
CB 71-6 Krytox 143 ac FILE: 71-6-slz
150F 1LBF 7639RPM #15

#485
of Points Modified = 3



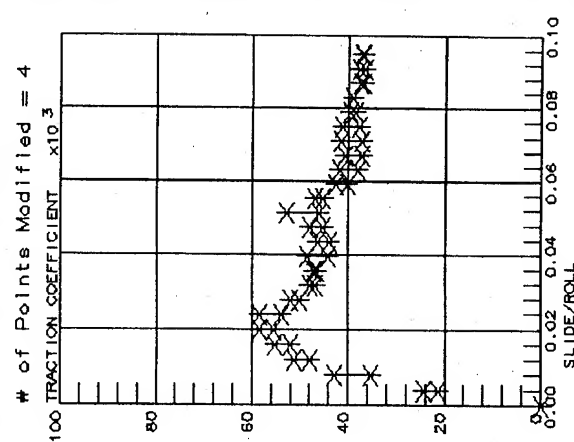
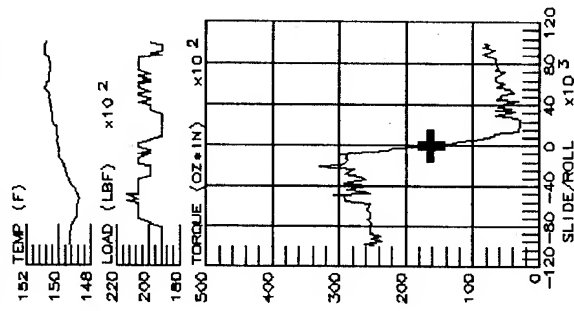
CB 71-6 Krytox 143 ac FILE: 71-6-slz
150F 1LBF 10198RPM #17

#467
of Points Modified = 0

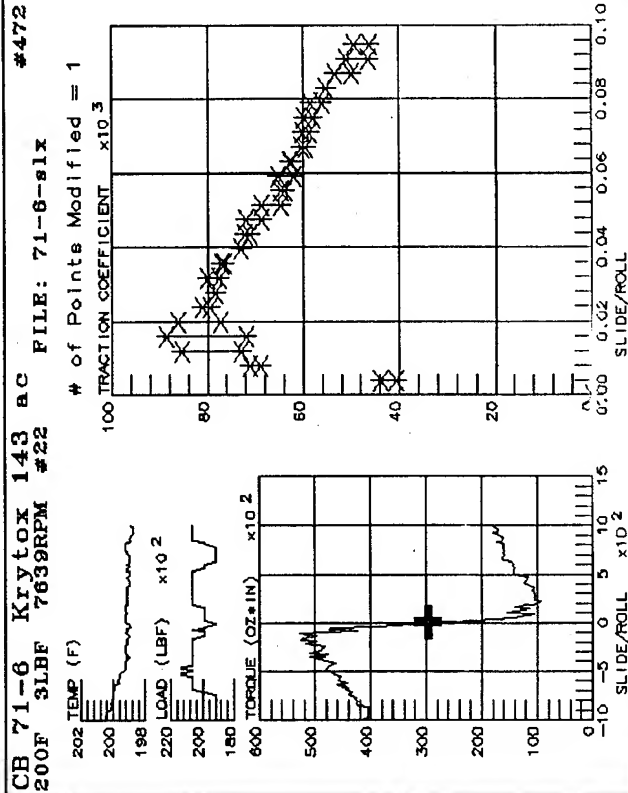
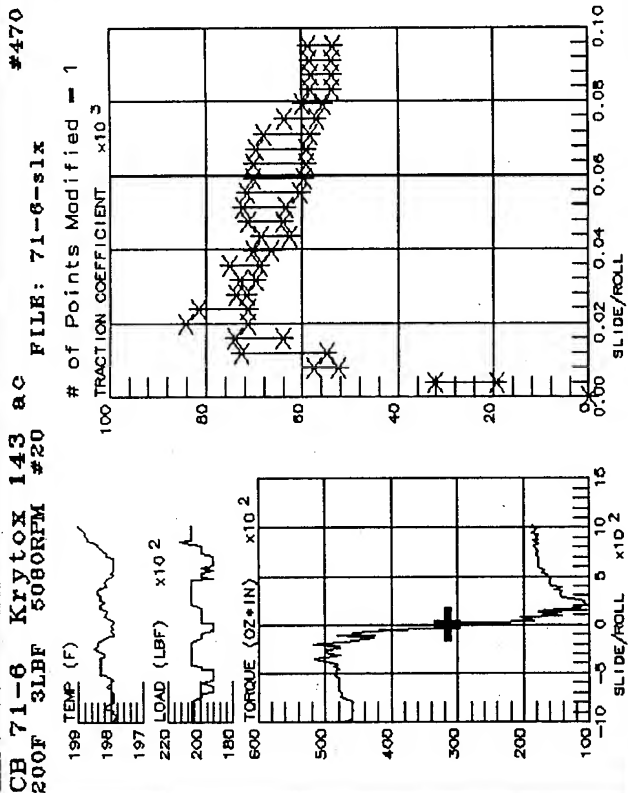
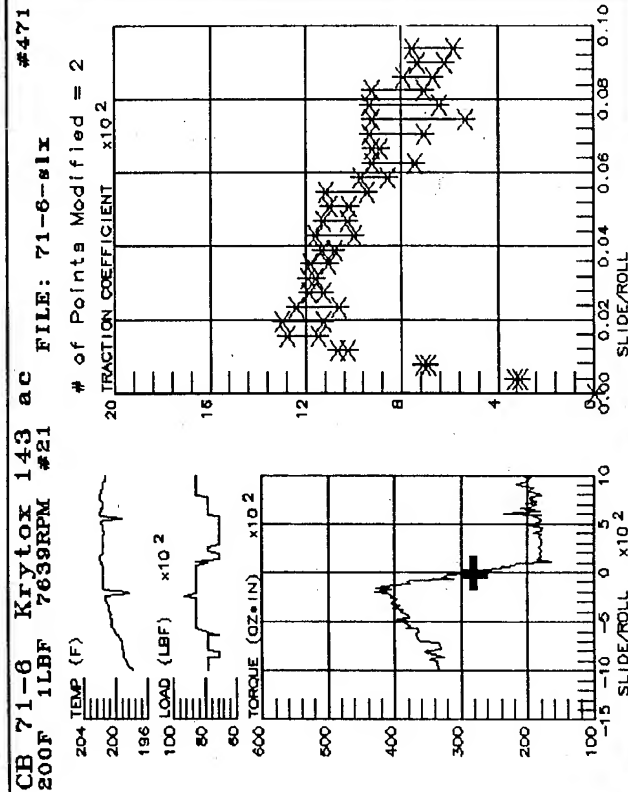
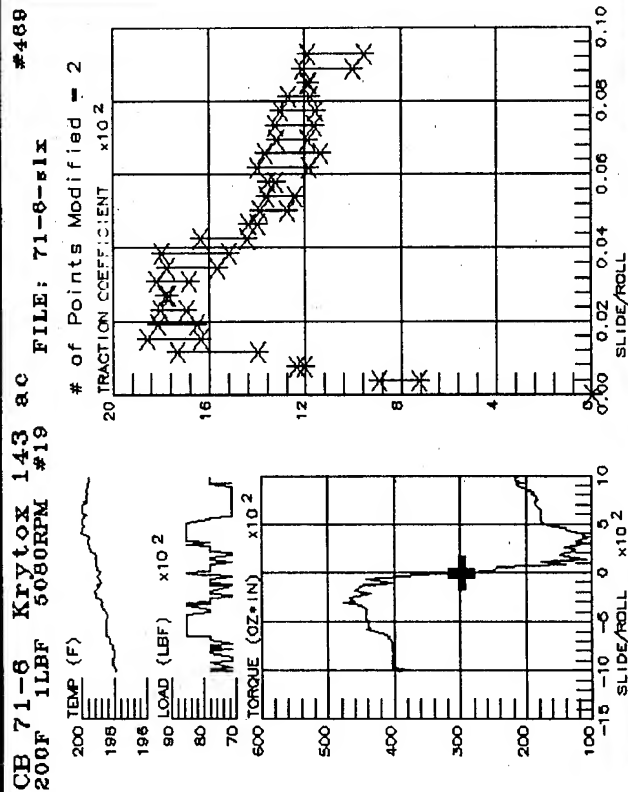


CB 71-6 Krytox 143 ac FILE: 71-6-slz
150F 3LBF 10198RPM #18

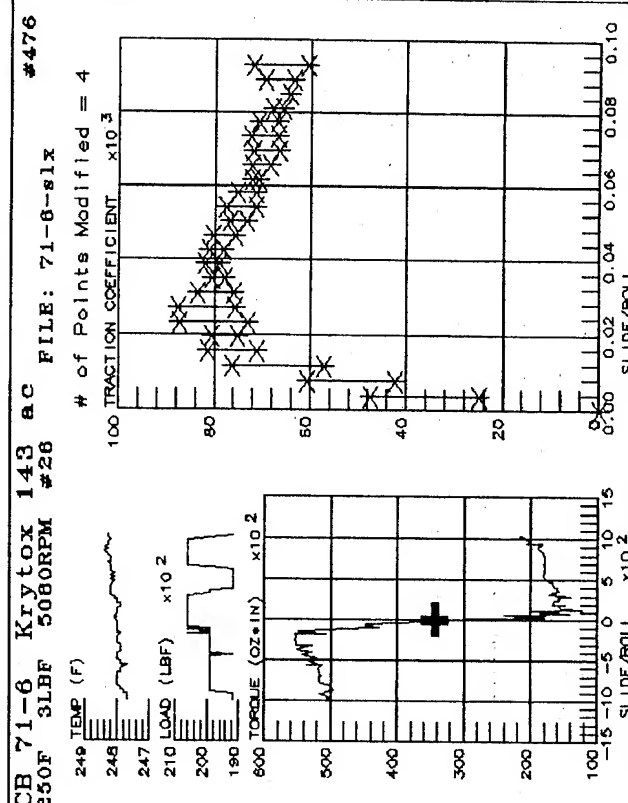
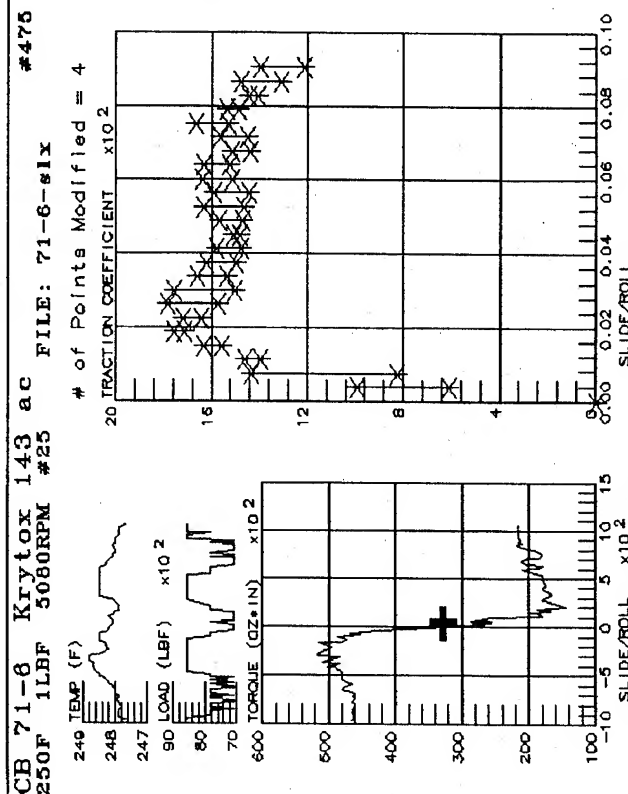
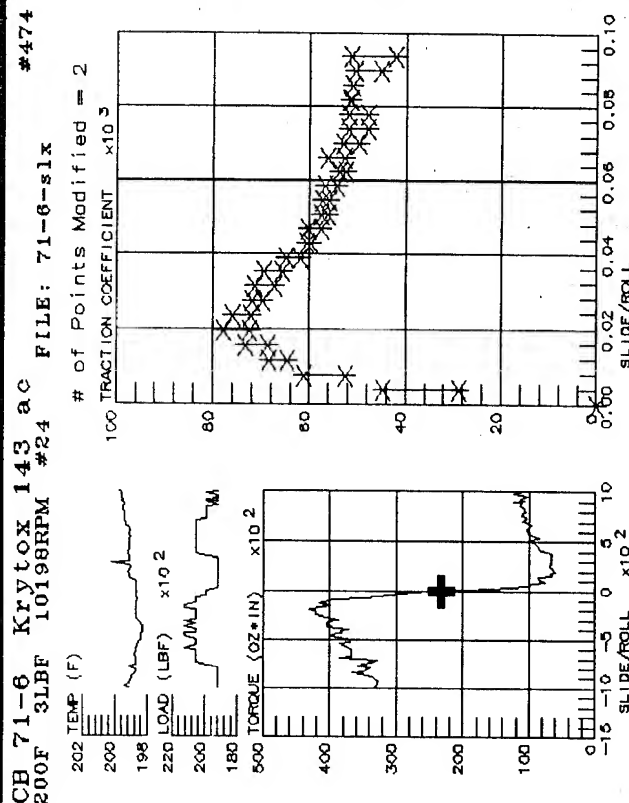
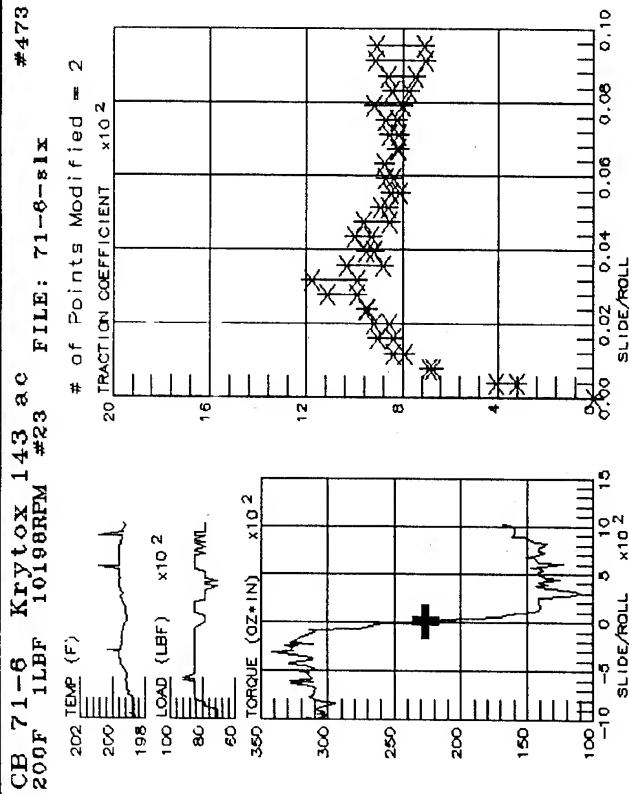
#468
of Points Modified = 4



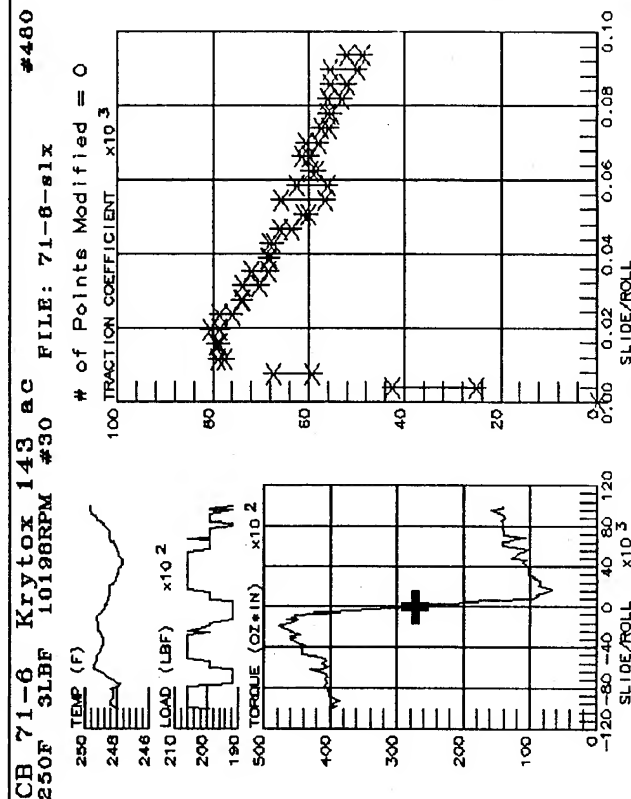
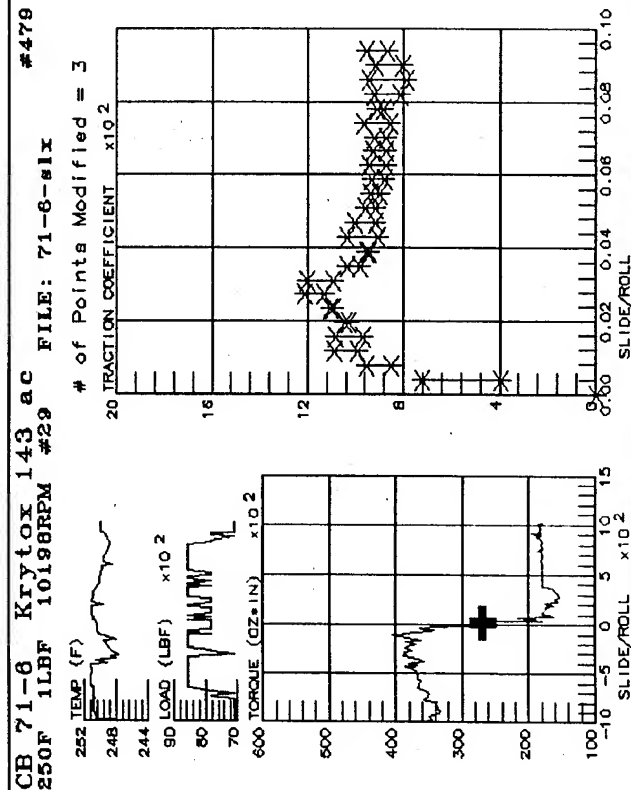
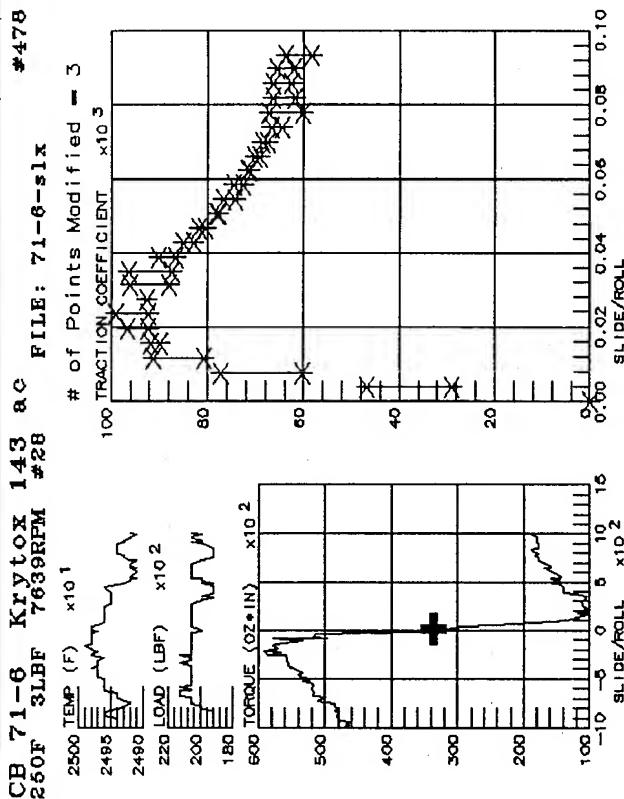
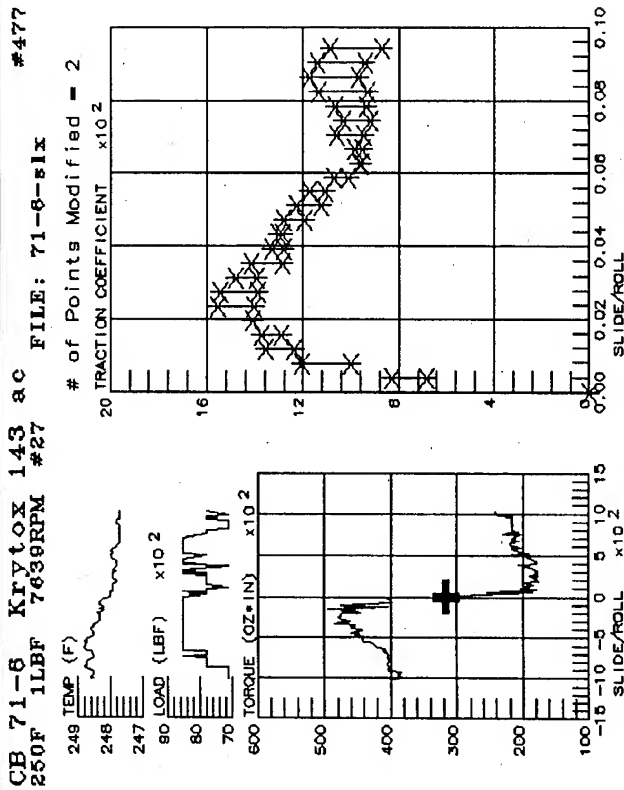
TRACTION DATA



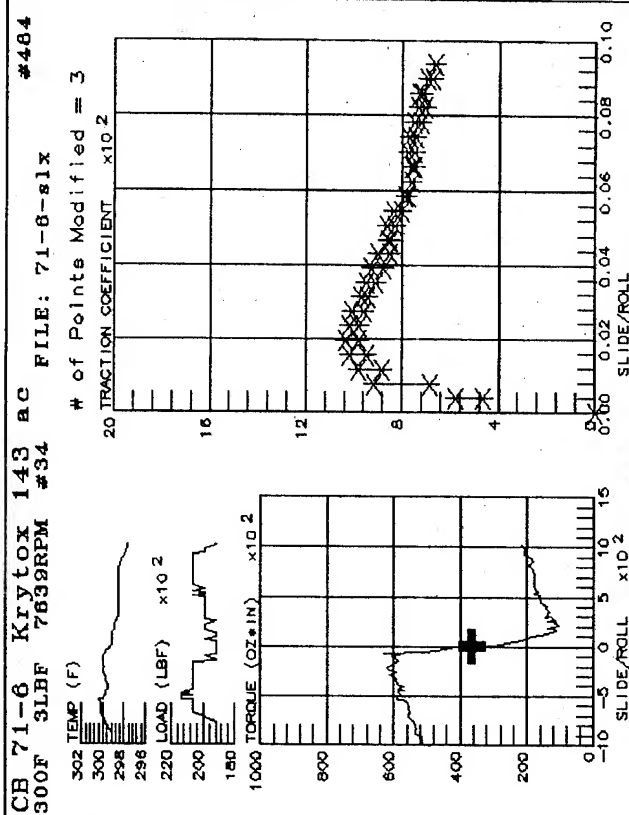
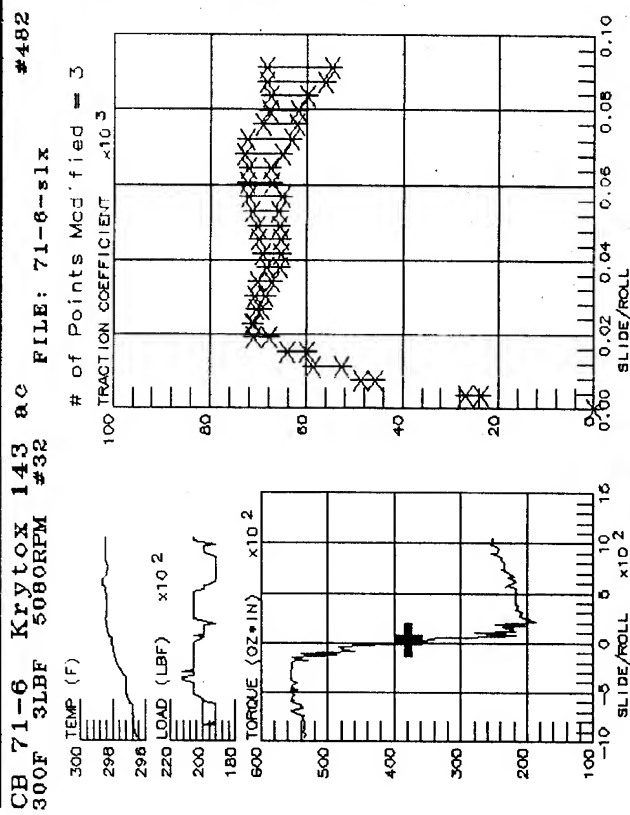
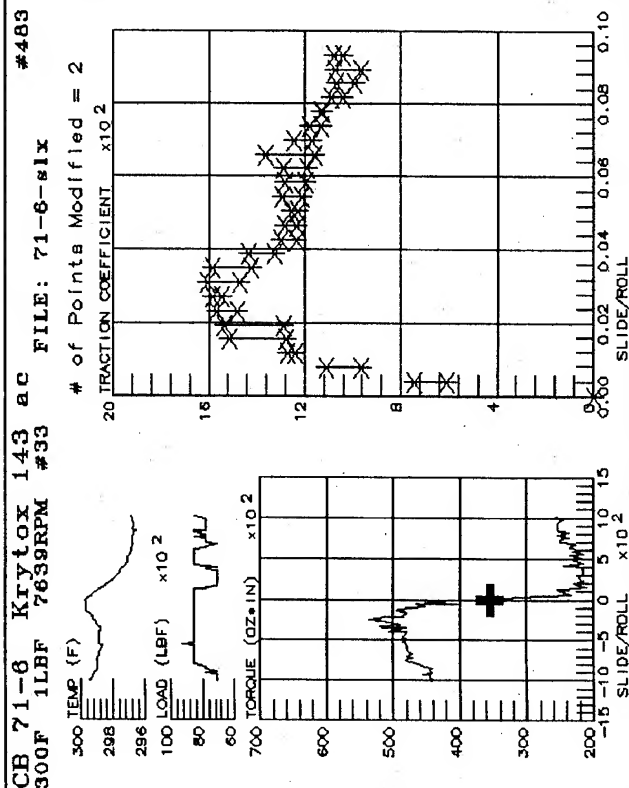
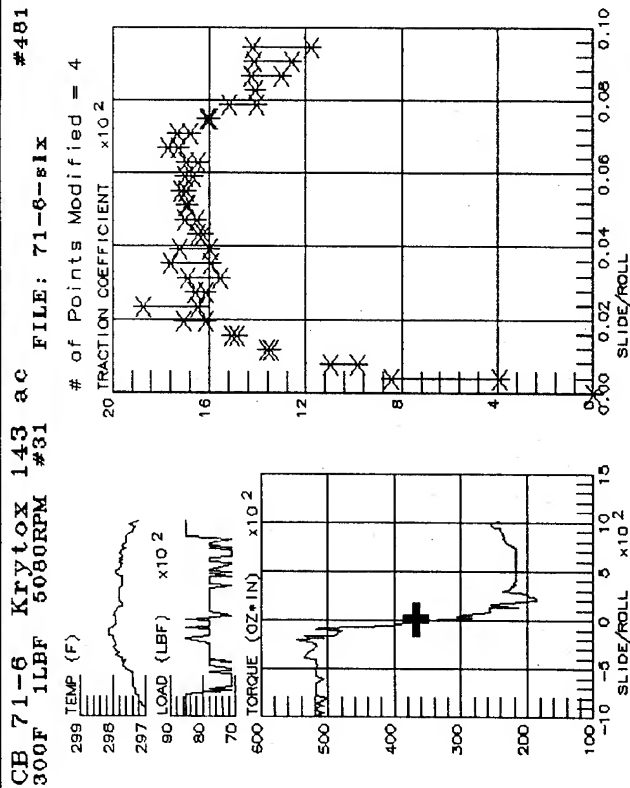
TRACTION DATA



TRACTION DATA



TRACTION DATA



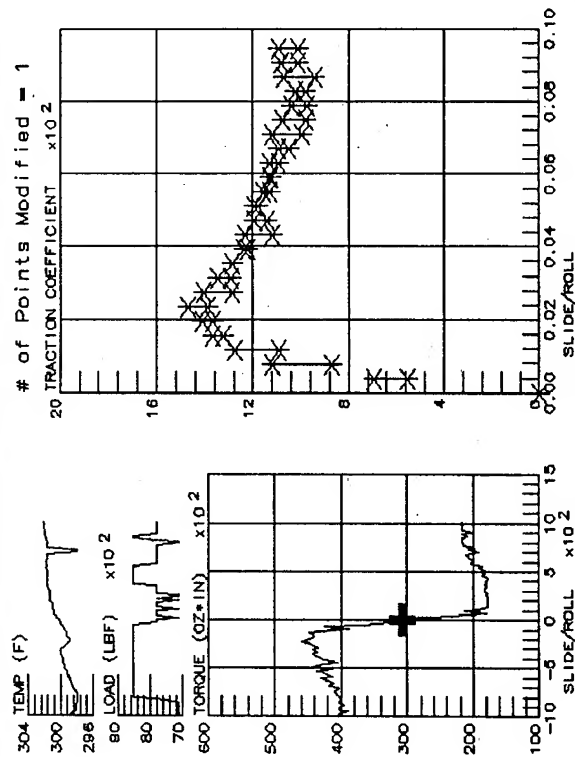
TRACTION DATA

CB 71-8 Krytox 143 ac FILE: 71-8-slx

#485

300F 1LBF 1019RPM #35

of Points Modified = 1

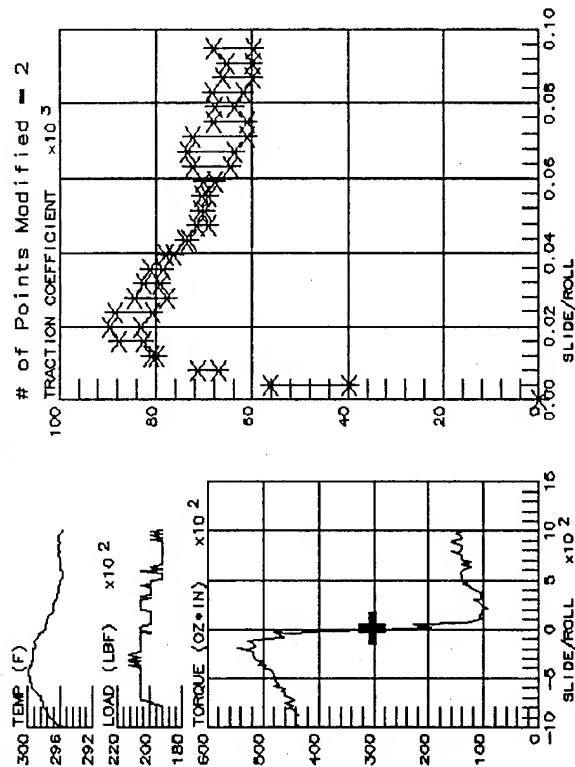


CB 71-8 Krytox 143 ac FILE: 71-8-slx

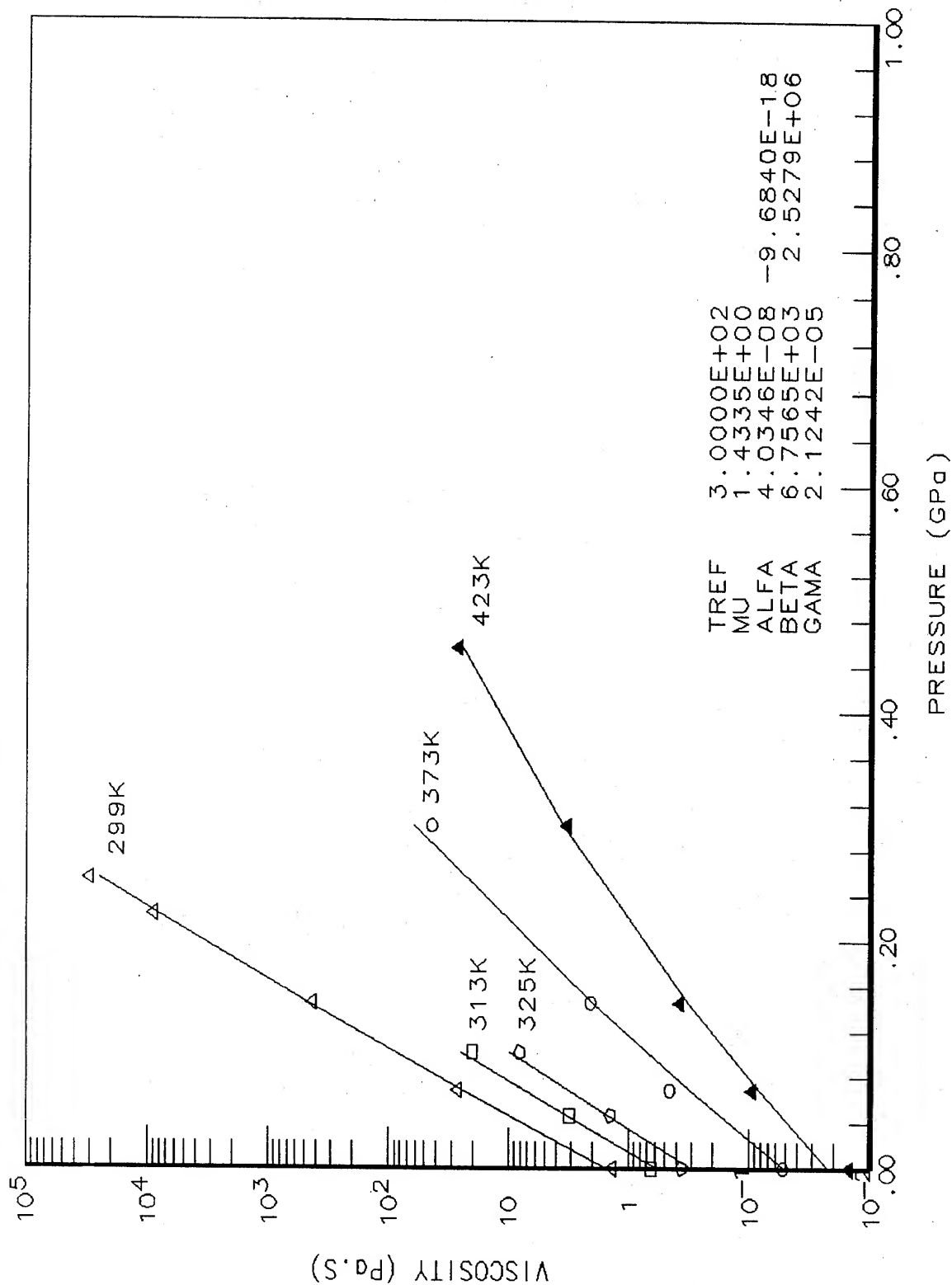
#486

300F 3LBF 1019RPM #36

of Points Modified = 2

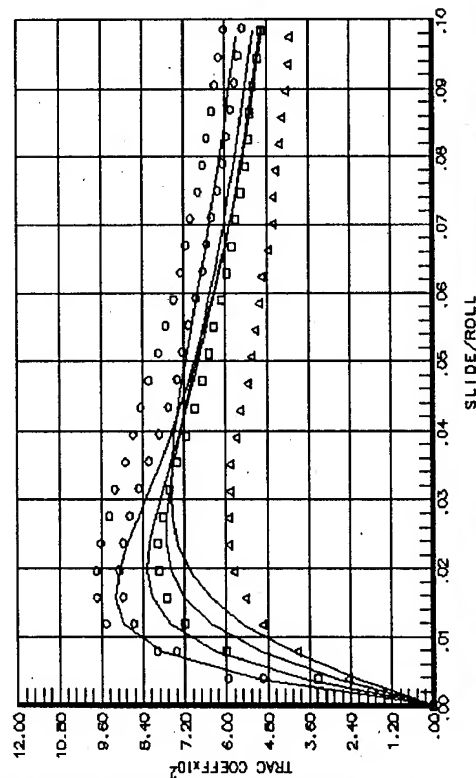


CB 71-6 Krytox 143ac Viscosity Model Type 2



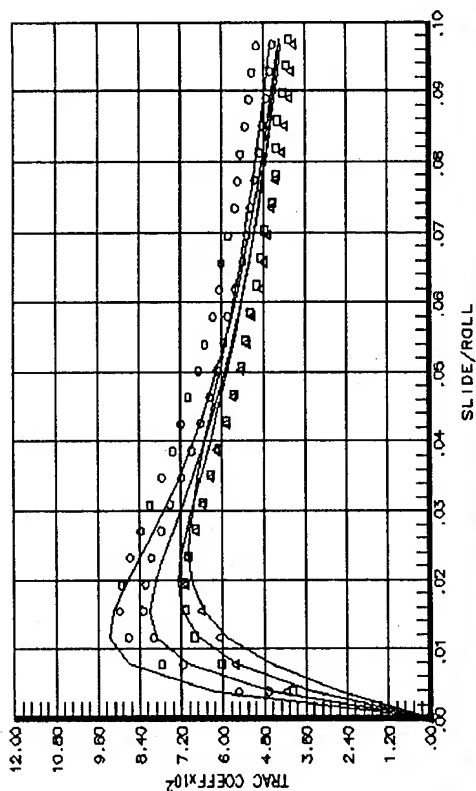
CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1

50N 10.13W/S 339K # 87 1.839E+02 1.700E-09 3.011E-02
119N 10.13W/S 339K # 88 1.839E+02 1.700E-09 3.011E-02
233N 10.13W/S 339K # 89 1.839E+02 1.700E-09 3.011E-02
403N 10.13W/S 339K # 70 1.839E+02 1.700E-09 3.011E-02



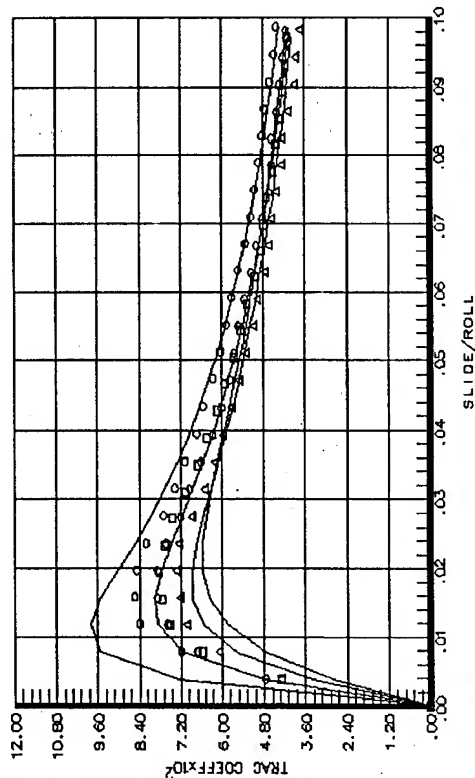
CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1

50N 15.24W/S 339K # 74 1.394E+02 1.700E-09 3.012E-02
119N 15.24W/S 339K # 75 1.394E+02 1.700E-09 3.012E-02
233N 15.24W/S 339K # 76 1.394E+02 1.700E-09 3.012E-02
403N 15.24W/S 339K # 77 1.394E+02 1.700E-09 3.012E-02



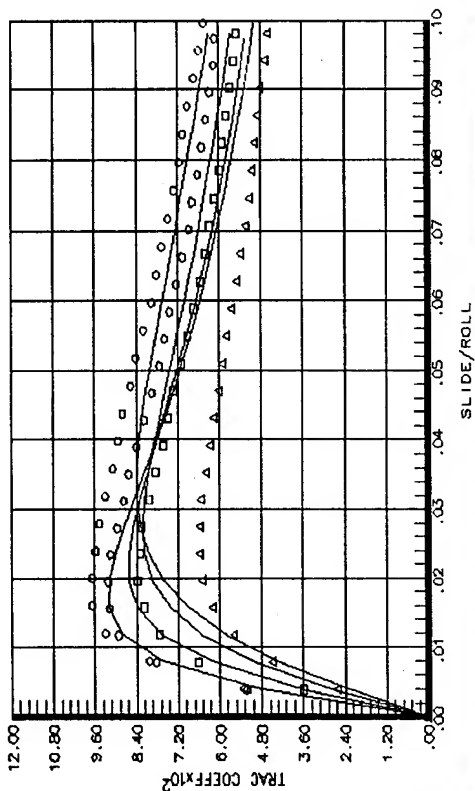
CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1

50N 20.34W/S 339K # 81 9.801E+01 1.700E-09 3.011E-02
119N 20.34W/S 339K # 82 9.801E+01 1.700E-09 3.011E-02
233N 20.34W/S 339K # 83 9.801E+01 1.700E-09 3.011E-02
403N 20.34W/S 339K # 84 9.801E+01 1.700E-09 3.011E-02



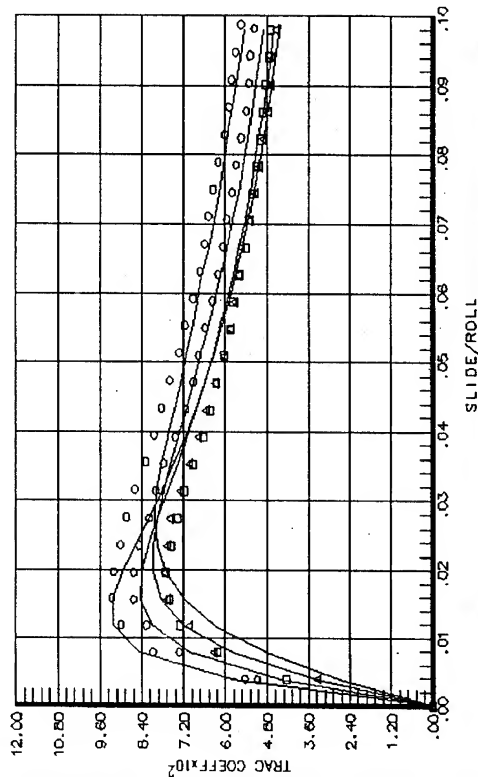
CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1

50N 10.13W/S 367K # 88 1.016E+02 1.700E-09 4.234E-02
119N 10.13W/S 367K # 89 1.016E+02 1.700E-09 4.234E-02
233N 10.13W/S 367K # 90 1.016E+02 1.700E-09 4.234E-02
403N 10.13W/S 367K # 91 1.016E+02 1.700E-09 4.234E-02

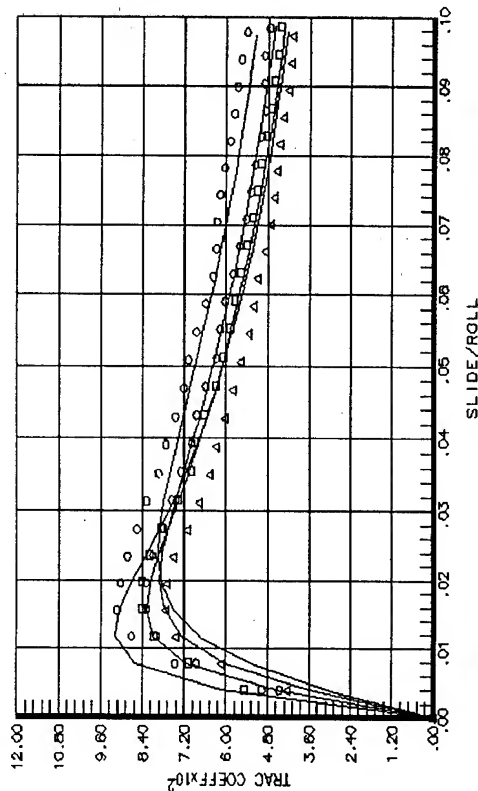


CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1 ob10.dat

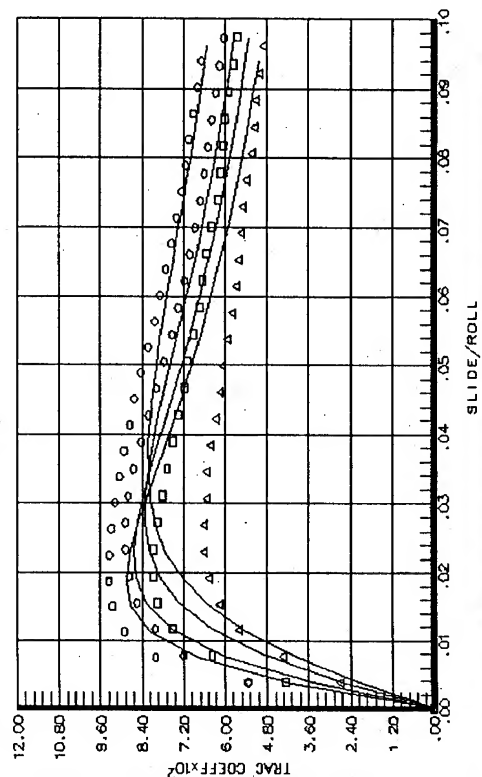
4	994MPa	50N	15.24M/S	367K	# 95	9.283E+01	ALFA*	BETA*
4	1321MPa	119N	15.24M/S	367K	# 96	9.283E+01	1.700E-09	3.399E-02
4	1653MPa	233N	15.24M/S	367K	# 97	9.283E+01	1.700E-09	3.399E-02
4	1984MPa	403N	15.24M/S	367K	# 98	9.283E+01	1.700E-09	3.399E-02

CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1 ob20.dat

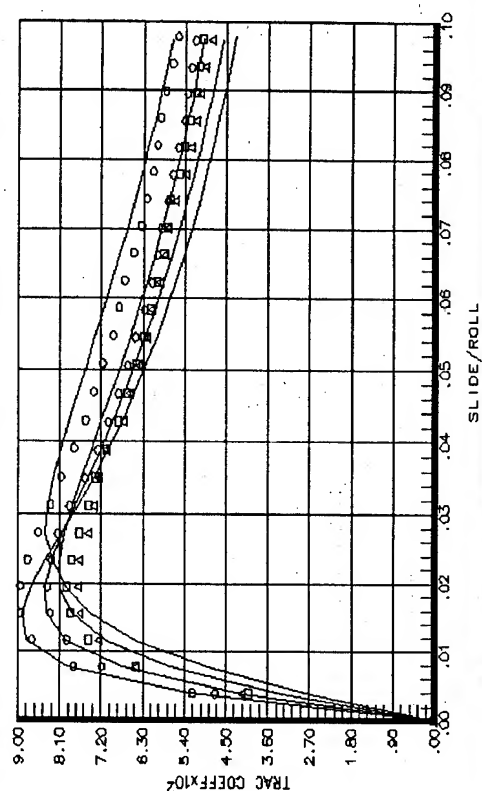
4	995MPa	50N	20.34M/S	367K	#102	7.813E+01	ALFA*	BETA*
4	1321MPa	119N	20.34M/S	367K	#103	7.813E+01	1.700E-09	2.857E-02
4	1653MPa	233N	20.34M/S	367K	#104	7.813E+01	1.700E-09	2.857E-02
4	1984MPa	403N	20.34M/S	367K	#105	7.813E+01	1.700E-09	2.857E-02

CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1 ob23.dat

4	992MPa	50N	10.13M/S	394K	#109	4.848E+01	ALFA*	BETA*
4	1321MPa	119N	10.13M/S	394K	#110	4.848E+01	1.700E-09	8.000E-02
4	1652MPa	233N	10.13M/S	394K	#127	4.848E+01	1.700E-09	8.000E-02
4	1984MPa	403N	10.13M/S	394K	#128	4.848E+01	1.700E-09	8.000E-02

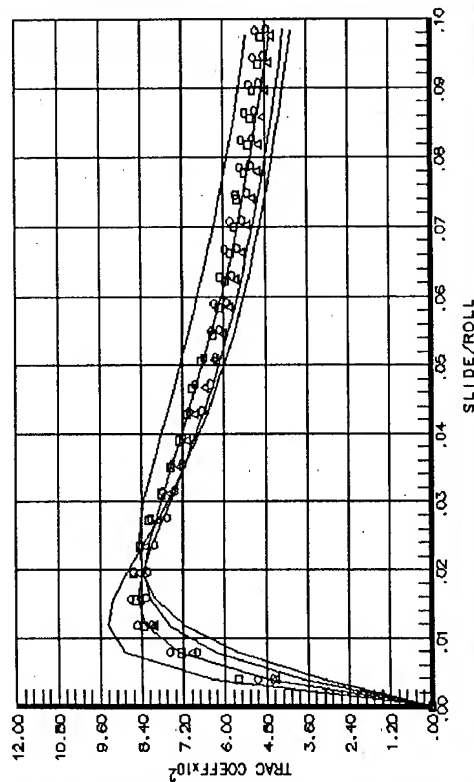
CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1 ob24.dat

4	992MPa	50N	15.24M/S	394K	#116	4.848E+01	ALFA*	BETA*
4	1321MPa	119N	15.24M/S	394K	#117	4.848E+01	1.700E-09	5.724E-02
4	1653MPa	233N	15.24M/S	394K	#129	4.848E+01	1.700E-09	5.724E-02
4	1984MPa	403N	15.24M/S	394K	#130	4.848E+01	1.700E-09	5.724E-02



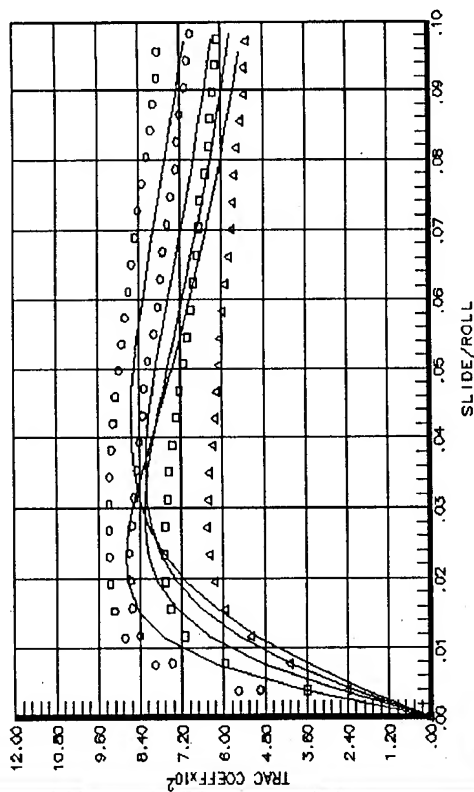
CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1

50N 20.34N/S 394K #123 5.056E+01 1.700E-09 4.498E-02 BETA*
119N 20.34N/S 394K #124 5.056E+01 1.700E-09 4.498E-02 ALFA*
233N 20.34N/S 394K #131 5.056E+01 1.700E-09 4.498E-02 XMU*
403N 20.34N/S 394K #132 5.056E+01 1.700E-09 4.498E-02



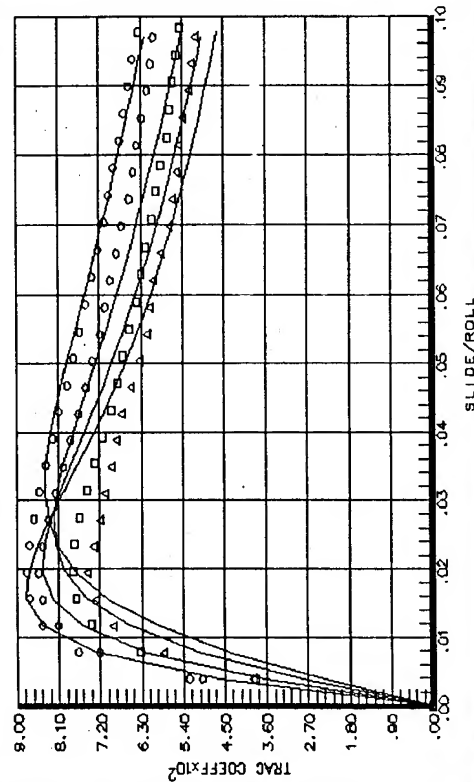
CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1

50N 10.13M/S 422K #138 2.272E+01 1.700E-09 1.326E-01 BETA*
119N 10.13M/S 422K #137 2.272E+01 1.700E-09 1.326E-01 ALFA*
233N 10.13M/S 422K #138 2.272E+01 1.700E-09 1.326E-01 XMU*
403N 10.13M/S 422K #139 2.272E+01 1.700E-09 1.326E-01



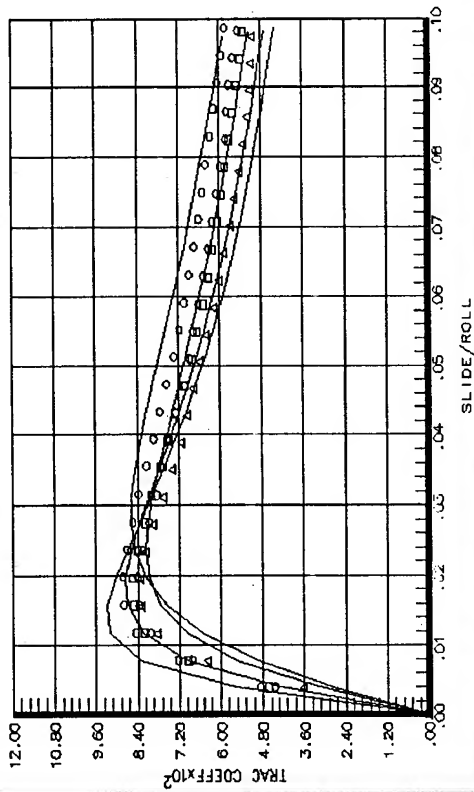
CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1

50N 15.24N/S 422K #143 2.355E+01 1.700E-09 9.289E-02 BETA*
119N 15.24N/S 422K #144 2.355E+01 1.700E-09 9.289E-02 ALFA*
233N 15.24N/S 422K #145 2.355E+01 1.700E-09 9.289E-02 XMU*
403N 15.24N/S 422K #148 2.355E+01 1.700E-09 9.289E-02



CB 71-6 Krytox 143 ac
NEWTONIAN MODEL TYPE 1

50N 20.34M/S 422K #150 2.355E+01 1.700E-09 6.850E-02 BETA*
119N 20.34M/S 422K #151 2.355E+01 1.700E-09 6.850E-02 ALFA*
233N 20.34M/S 422K #152 2.355E+01 1.700E-09 6.850E-02 XMU*
403N 20.34M/S 422K #153 2.355E+01 1.700E-09 6.850E-02



4. Traction Data Set C: 66-92 Krytox 143az

Data set name: CG 66-92 Krytox 143 az
 Rolling radii [Disks 1 & 2] (in): 0.75 0.75
 Crown radii [Disks 1 & 2] (in): 0.73 0.70

Number of data sets found = 210

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
1	100.00	2.56	2295.00	2805.00	2550.00	50	cg100h #1
2	100.00	8.63	2295.00	2805.00	2550.00	50	cg100h #2
3	100.00	20.45	2295.00	2805.00	2550.00	50	cg100h #3
4	100.00	39.94	2295.00	2805.00	2550.00	50	cg100h #4
5	100.00	69.01	2295.00	2805.00	2550.00	50	cg100h #5
6	100.00	2.56	4590.00	5610.00	5100.00	50	cg100h #6
7	100.00	8.63	4590.00	5610.00	5100.00	50	cg100h #7
8	100.00	20.45	4590.00	5610.00	5100.00	50	cg100h #8
9	100.00	39.94	4590.00	5610.00	5100.00	50	cg100h #9
10	100.00	69.01	4590.00	5610.00	5100.00	50	cg100h #10
11	100.00	2.56	9135.00	11165.00	10150.00	50	cg100h #11
12	100.00	8.63	9135.00	11165.00	10150.00	50	cg100h #12
13	100.00	20.45	9135.00	11165.00	10150.00	50	cg100h #13
14	100.00	39.94	9135.00	11165.00	10150.00	50	cg100h #14
15	100.00	69.01	9135.00	11165.00	10150.00	50	cg100h #15
16	100.00	2.56	137.00	167.00	152.00	20	cg100m #1
17	100.00	8.63	137.00	167.00	152.00	20	cg100m #2
18	100.00	20.45	137.00	167.00	152.00	20	cg100m #3
19	100.00	39.94	137.00	167.00	152.00	20	cg100m #4
20	100.00	69.01	137.00	167.00	152.00	20	cg100m #5
21	100.00	2.56	280.00	340.00	310.00	20	cg100m #6
22	100.00	8.63	280.00	340.00	310.00	20	cg100m #7
23	100.00	20.45	280.00	340.00	310.00	20	cg100m #8
24	100.00	39.94	280.00	340.00	310.00	20	cg100m #9
25	100.00	69.01	280.00	340.00	310.00	20	cg100m #10
26	100.00	2.56	572.00	699.00	635.50	20	cg100m #11
27	100.00	8.63	572.00	699.00	635.50	20	cg100m #12
28	100.00	20.45	572.00	699.00	635.50	20	cg100m #13
29	100.00	39.94	572.00	699.00	635.50	20	cg100m #14
30	100.00	69.01	572.00	699.00	635.50	20	cg100m #15
31	100.00	2.56	1143.00	1397.00	1270.00	20	cg100m #16
32	100.00	8.63	1143.00	1397.00	1270.00	20	cg100m #17
33	100.00	20.45	1143.00	1397.00	1270.00	20	cg100m #18
34	100.00	39.94	1143.00	1397.00	1270.00	20	cg100m #19
35	100.00	69.01	1143.00	1397.00	1270.00	20	cg100m #20
36	150.00	2.56	2295.00	2805.00	2550.00	50	cg150h #1
37	150.00	8.63	2295.00	2805.00	2550.00	50	cg150h #2
38	150.00	20.45	2295.00	2805.00	2550.00	50	cg150h #3
39	150.00	39.94	2295.00	2805.00	2550.00	50	cg150h #4
40	150.00	69.01	2295.00	2805.00	2550.00	50	cg150h #5
41	150.00	2.56	4590.00	5610.00	5100.00	50	cg150h #6
42	150.00	8.63	4590.00	5610.00	5100.00	50	cg150h #7
43	150.00	20.45	4590.00	5610.00	5100.00	50	cg150h #8
44	150.00	39.94	4590.00	5610.00	5100.00	50	cg150h #9
45	150.00	69.01	4590.00	5610.00	5100.00	50	cg150h #10
46	150.00	2.56	9135.00	11165.00	10150.00	50	cg150h #11
47	150.00	8.63	9135.00	11165.00	10150.00	50	cg150h #12
48	150.00	20.45	9135.00	11165.00	10150.00	50	cg150h #13
49	150.00	39.94	9135.00	11165.00	10150.00	50	cg150h #14
50	150.00	69.01	9135.00	11165.00	10150.00	50	cg150h #15

Data set: CC 66-92 Krytox 143 azcontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
51	150.00	2.56	137.00	167.00	152.00	20	cg150m #1
52	150.00	8.63	137.00	167.00	152.00	20	cg150m #2
53	150.00	20.45	137.00	167.00	152.00	20	cg150m #3
54	150.00	39.94	137.00	167.00	152.00	20	cg150m #4
55	150.00	69.01	137.00	167.00	152.00	20	cg150m #5
56	150.00	2.56	280.00	340.00	310.00	20	cg150m #6
57	150.00	8.63	280.00	340.00	310.00	20	cg150m #7
58	150.00	20.45	280.00	340.00	310.00	20	cg150m #8
59	150.00	39.94	280.00	340.00	310.00	20	cg150m #9
60	150.00	69.01	280.00	340.00	310.00	20	cg150m #10
61	150.00	2.56	572.00	699.00	635.50	20	cg150m #11
62	150.00	8.63	572.00	699.00	635.50	20	cg150m #12
63	150.00	20.45	572.00	699.00	635.50	20	cg150m #13
64	150.00	39.94	572.00	699.00	635.50	20	cg150m #14
65	150.00	69.01	572.00	699.00	635.50	20	cg150m #15
66	150.00	2.56	1143.00	1397.00	1270.00	20	cg150m #16
67	150.00	8.63	1143.00	1397.00	1270.00	20	cg150m #17
68	150.00	20.45	1143.00	1397.00	1270.00	20	cg150m #18
69	150.00	39.94	1143.00	1397.00	1270.00	20	cg150m #19
70	150.00	69.01	1143.00	1397.00	1270.00	20	cg150m #20
71	200.00	2.56	2295.00	2805.00	2550.00	50	cg200h #1
72	200.00	8.63	2295.00	2805.00	2550.00	50	cg200h #2
73	200.00	20.45	2295.00	2805.00	2550.00	50	cg200h #3
74	200.00	39.94	2295.00	2805.00	2550.00	50	cg200h #4
75	200.00	69.01	2295.00	2805.00	2550.00	50	cg200h #5
76	200.00	2.56	4590.00	5610.00	5100.00	50	cg200h #6
77	200.00	8.63	4590.00	5610.00	5100.00	50	cg200h #7
78	200.00	20.45	4590.00	5610.00	5100.00	50	cg200h #8
79	200.00	39.94	4590.00	5610.00	5100.00	50	cg200h #9
80	200.00	69.01	4590.00	5610.00	5100.00	50	cg200h #10
81	200.00	2.56	9135.00	11165.00	10150.00	50	cg200h #11
82	200.00	8.63	9135.00	11165.00	10150.00	50	cg200h #12
83	200.00	20.45	9135.00	11165.00	10150.00	50	cg200h #13
84	200.00	39.94	9135.00	11165.00	10150.00	50	cg200h #14
85	200.00	69.01	9135.00	11165.00	10150.00	50	cg200h #15
86	200.00	2.56	137.00	167.00	152.00	20	cg200m #1
87	200.00	8.63	137.00	167.00	152.00	20	cg200m #2
88	200.00	20.45	137.00	167.00	152.00	20	cg200m #3
89	200.00	39.94	137.00	167.00	152.00	20	cg200m #4
90	200.00	69.01	137.00	167.00	152.00	20	cg200m #5
91	200.00	2.56	280.00	340.00	310.00	20	cg200m #6
92	200.00	8.63	280.00	340.00	310.00	20	cg200m #7
93	200.00	20.45	280.00	340.00	310.00	20	cg200m #8
94	200.00	39.94	280.00	340.00	310.00	20	cg200m #9
95	200.00	69.01	280.00	340.00	310.00	20	cg200m #10
96	200.00	2.56	572.00	699.00	635.50	20	cg200m #11
97	200.00	8.63	572.00	699.00	635.50	20	cg200m #12
98	200.00	20.45	572.00	699.00	635.50	20	cg200m #13
99	200.00	39.94	572.00	699.00	635.50	20	cg200m #14
100	200.00	69.01	572.00	699.00	635.50	20	cg200m #15
101	200.00	2.56	1143.00	1397.00	1270.00	20	cg200m #16
102	200.00	8.63	1143.00	1397.00	1270.00	20	cg200m #17
103	200.00	20.45	1143.00	1397.00	1270.00	20	cg200m #18
104	200.00	39.94	1143.00	1397.00	1270.00	20	cg200m #19
105	200.00	69.01	1143.00	1397.00	1270.00	20	cg200m #20
106	250.00	2.56	2295.00	2805.00	2550.00	50	cg250h #1
107	250.00	8.63	2295.00	2805.00	2550.00	50	cg250h #2
108	250.00	20.45	2295.00	2805.00	2550.00	50	cg250h #3
109	250.00	39.94	2295.00	2805.00	2550.00	50	cg250h #4
110	250.00	69.01	2295.00	2805.00	2550.00	50	cg250h #5
111	250.00	2.56	4590.00	5610.00	5100.00	50	cg250h #6
112	250.00	8.63	4590.00	5610.00	5100.00	50	cg250h #7
113	250.00	20.45	4590.00	5610.00	5100.00	50	cg250h #8
114	250.00	39.94	4590.00	5610.00	5100.00	50	cg250h #9
115	250.00	69.01	4590.00	5610.00	5100.00	50	cg250h #10
116	250.00	2.56	9135.00	11165.00	10150.00	50	cg250h #11
117	250.00	8.63	9135.00	11165.00	10150.00	50	cg250h #12
118	250.00	20.45	9135.00	11165.00	10150.00	50	cg250h #13
119	250.00	39.94	9135.00	11165.00	10150.00	50	cg250h #14
120	250.00	69.01	9135.00	11165.00	10150.00	50	cg250h #15

Data set: CG 66-92 Krytox 143 azcontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
121	250.00	2.56	137.00	167.00	152.00	20	cg250m #1
122	250.00	8.63	137.00	167.00	152.00	20	cg250m #2
123	250.00	20.45	137.00	167.00	152.00	20	cg250m #3
124	250.00	39.94	137.00	167.00	152.00	20	cg250m #4
125	250.00	69.01	137.00	167.00	152.00	20	cg250m #5
126	250.00	2.56	280.00	340.00	310.00	20	cg250m #6
127	250.00	8.63	280.00	340.00	310.00	20	cg250m #7
128	250.00	20.45	280.00	340.00	310.00	20	cg250m #8
129	250.00	39.94	280.00	340.00	310.00	20	cg250m #9
130	250.00	69.01	280.00	340.00	310.00	20	cg250m #10
131	250.00	2.56	572.00	699.00	635.50	20	cg250m #11
132	250.00	8.63	572.00	699.00	635.50	20	cg250m #12
133	250.00	20.45	572.00	699.00	635.50	20	cg250m #13
134	250.00	39.94	572.00	699.00	635.50	20	cg250m #14
135	250.00	69.01	572.00	699.00	635.50	20	cg250m #15
136	250.00	2.56	1143.00	1397.00	1270.00	20	cg250m #16
137	250.00	8.63	1143.00	1397.00	1270.00	20	cg250m #17
138	250.00	20.45	1143.00	1397.00	1270.00	20	cg250m #18
139	250.00	39.94	1143.00	1397.00	1270.00	20	cg250m #19
140	250.00	69.01	1143.00	1397.00	1270.00	20	cg250m #20
141	300.00	2.56	2295.00	2805.00	2550.00	50	cg300h #1
142	300.00	8.63	2295.00	2805.00	2550.00	50	cg300h #2
143	300.00	20.45	2295.00	2805.00	2550.00	50	cg300h #3
144	300.00	39.94	2295.00	2805.00	2550.00	50	cg300h #4
145	300.00	69.01	2295.00	2805.00	2550.00	50	cg300h #5
146	300.00	2.56	4590.00	5610.00	5100.00	50	cg300h #6
147	300.00	8.63	4590.00	5610.00	5100.00	50	cg300h #7
148	300.00	20.45	4590.00	5610.00	5100.00	50	cg300h #8
149	300.00	39.94	4590.00	5610.00	5100.00	50	cg300h #9
150	300.00	69.01	4590.00	5610.00	5100.00	50	cg300h #10
151	300.00	2.56	9135.00	11165.00	10150.00	50	cg300h #11
152	300.00	8.63	9135.00	11165.00	10150.00	50	cg300h #12
153	300.00	20.45	9135.00	11165.00	10150.00	50	cg300h #13
154	300.00	39.94	9135.00	11165.00	10150.00	50	cg300h #14
155	300.00	69.01	9135.00	11165.00	10150.00	50	cg300h #15
156	300.00	2.56	137.00	167.00	152.00	20	cg300m #1
157	300.00	8.63	137.00	167.00	152.00	20	cg300m #2
158	300.00	20.45	137.00	167.00	152.00	20	cg300m #3
159	300.00	39.94	137.00	167.00	152.00	20	cg300m #4
160	300.00	69.01	137.00	167.00	152.00	20	cg300m #5
161	300.00	2.56	280.00	340.00	310.00	20	cg300m #6
162	300.00	8.63	280.00	340.00	310.00	20	cg300m #7
163	300.00	20.45	280.00	340.00	310.00	20	cg300m #8
164	300.00	39.94	280.00	340.00	310.00	20	cg300m #9
165	300.00	69.01	280.00	340.00	310.00	20	cg300m #10
166	300.00	2.56	572.00	699.00	635.50	20	cg300m #11
167	300.00	8.63	572.00	699.00	635.50	20	cg300m #12
168	300.00	20.45	572.00	699.00	635.50	20	cg300m #13
169	300.00	39.94	572.00	699.00	635.50	20	cg300m #14
170	300.00	69.01	572.00	699.00	635.50	20	cg300m #15
171	300.00	2.56	1143.00	1397.00	1270.00	20	cg300m #16
172	300.00	8.63	1143.00	1397.00	1270.00	20	cg300m #17
173	300.00	20.45	1143.00	1397.00	1270.00	20	cg300m #18
174	300.00	39.94	1143.00	1397.00	1270.00	20	cg300m #19
175	300.00	69.01	1143.00	1397.00	1270.00	20	cg300m #20
176	80.00	2.56	2295.00	2805.00	2550.00	50	cg80h #1
177	80.00	8.63	2295.00	2805.00	2550.00	50	cg80h #2
178	80.00	20.45	2295.00	2805.00	2550.00	50	cg80h #3
179	80.00	39.94	2295.00	2805.00	2550.00	50	cg80h #4
180	80.00	69.01	2295.00	2805.00	2550.00	50	cg80h #5
181	80.00	2.56	4590.00	5610.00	5100.00	50	cg80h #6
182	80.00	8.63	4590.00	5610.00	5100.00	50	cg80h #7
183	80.00	20.45	4590.00	5610.00	5100.00	50	cg80h #8
184	80.00	39.94	4590.00	5610.00	5100.00	50	cg80h #9
185	80.00	69.01	4590.00	5610.00	5100.00	50	cg80h #10
186	80.00	2.56	9135.00	11165.00	10150.00	50	cg80h #11
187	80.00	8.63	9135.00	11165.00	10150.00	50	cg80h #12
188	80.00	20.45	9135.00	11165.00	10150.00	50	cg80h #13
189	80.00	39.94	9135.00	11165.00	10150.00	50	cg80h #14
190	80.00	69.01	9135.00	11165.00	10150.00	47	cg80h #15

Data set: CG 66-92 Krytox 143 azcontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
191	80.00	2.56	137.00	167.00	152.00	20	cg80m #1
192	80.00	8.63	137.00	167.00	152.00	20	cg80m #2
193	80.00	20.45	137.00	167.00	152.00	20	cg80m #3
194	80.00	39.94	137.00	167.00	152.00	20	cg80m #4
195	80.00	69.01	137.00	167.00	152.00	20	cg80m #5
196	80.00	2.56	280.00	340.00	310.00	20	cg80m #6
197	80.00	8.63	280.00	340.00	310.00	20	cg80m #7
198	80.00	20.45	280.00	340.00	310.00	20	cg80m #8
199	80.00	39.94	280.00	340.00	310.00	20	cg80m #9
200	80.00	69.01	280.00	340.00	310.00	20	cg80m #10
201	80.00	2.56	572.00	699.00	635.50	20	cg80m #11
202	80.00	8.63	572.00	699.00	635.50	20	cg80m #12
203	80.00	20.45	572.00	699.00	635.50	20	cg80m #13
204	80.00	39.94	572.00	699.00	635.50	20	cg80m #14
205	80.00	69.01	572.00	699.00	635.50	20	cg80m #15
206	80.00	2.56	1143.00	1397.00	1270.00	20	cg80m #16
207	80.00	8.63	1143.00	1397.00	1270.00	20	cg80m #17
208	80.00	20.45	1143.00	1397.00	1270.00	20	cg80m #18
209	80.00	39.94	1143.00	1397.00	1270.00	20	cg80m #19
210	80.00	69.01	1143.00	1397.00	1270.00	20	cg80m #20

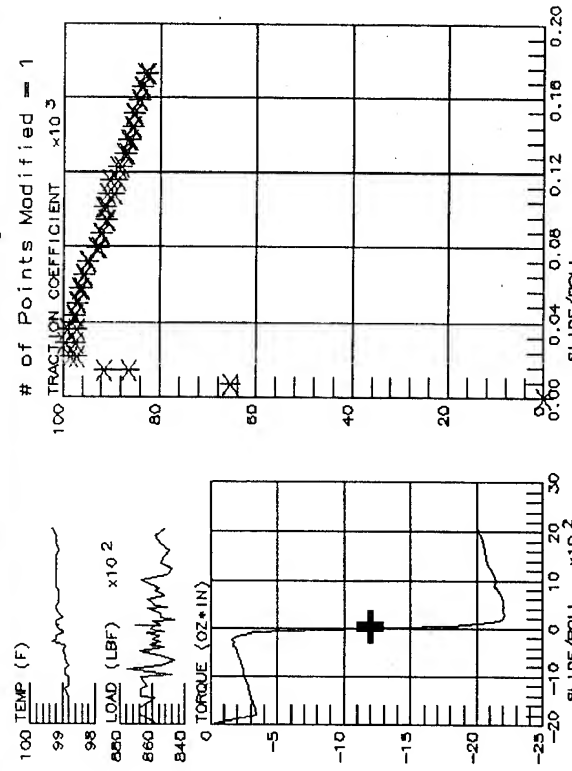
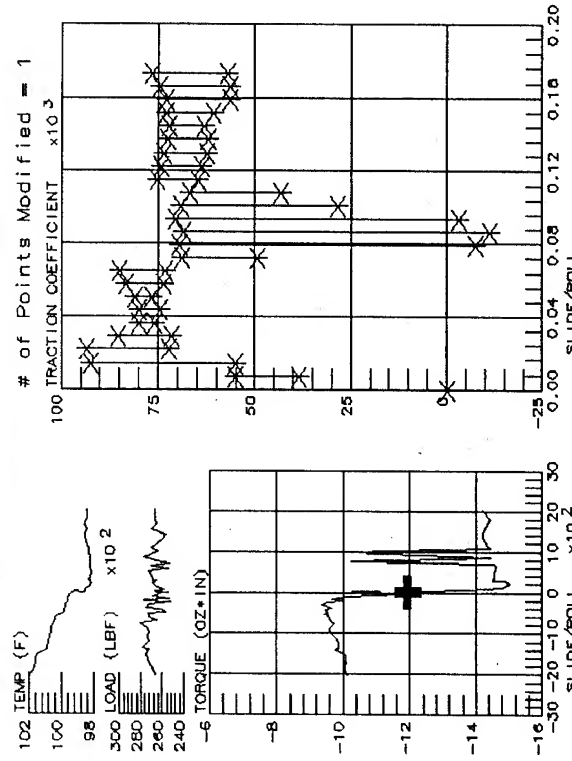
Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #
cg1.dat	80.00	1270.00	207 208 209 210
cg2.dat	80.00	2550.00	177 178 179 180
cg3.dat	80.00	5100.00	182 183 184 185
cg4.dat	80.00	10150.00	187 188 189 190
cg5.dat	100.00	1270.00	32 33 34 35
cg6.dat	100.00	2550.00	2 3 4 5
cg7.dat	100.00	5100.00	7 8 9 10
cg8.dat	100.00	10150.00	12 13 14 15
cg9.dat	150.00	1270.00	67 68 69 70
cg10.dat	150.00	2550.00	37 38 39 40
cg11.dat	150.00	5100.00	42 43 44 45
cg12.dat	150.00	10150.00	47 48 49 50
cg13.dat	200.00	1270.00	102 103 104 105
cg14.dat	200.00	2550.00	72 73 74 75
cg15.dat	200.00	5100.00	77 78 79 80
cg16.dat	200.00	10150.00	82 83 84 85
cg17.dat	250.00	1270.00	137 138 139 140
cg18.dat	250.00	2550.00	107 108 109 110
cg19.dat	250.00	5100.00	112 113 114 115
cg20.dat	250.00	10150.00	117 118 119 120
cg21.dat	300.00	1270.00	172 173 174 175
cg22.dat	300.00	2550.00	142 143 144 145
cg23.dat	300.00	5100.00	147 148 149 150
cg24.dat	300.00	10150.00	152 153 154 155

TRACTION DATA

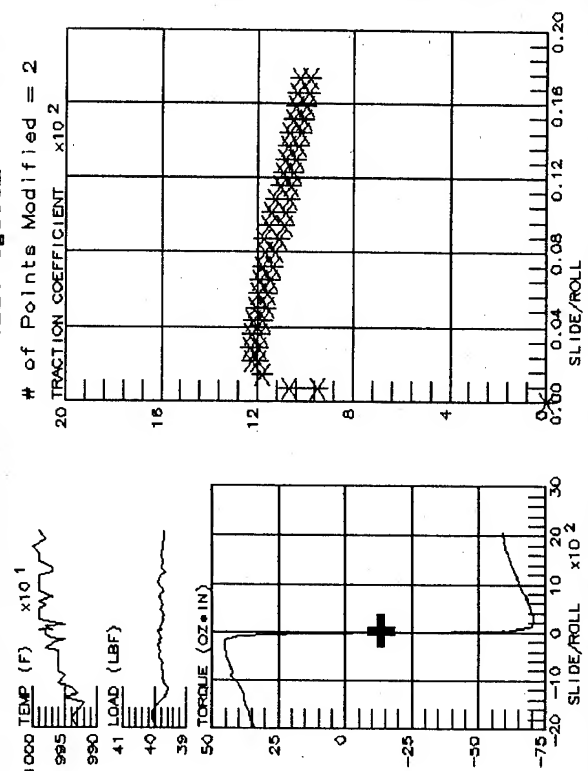
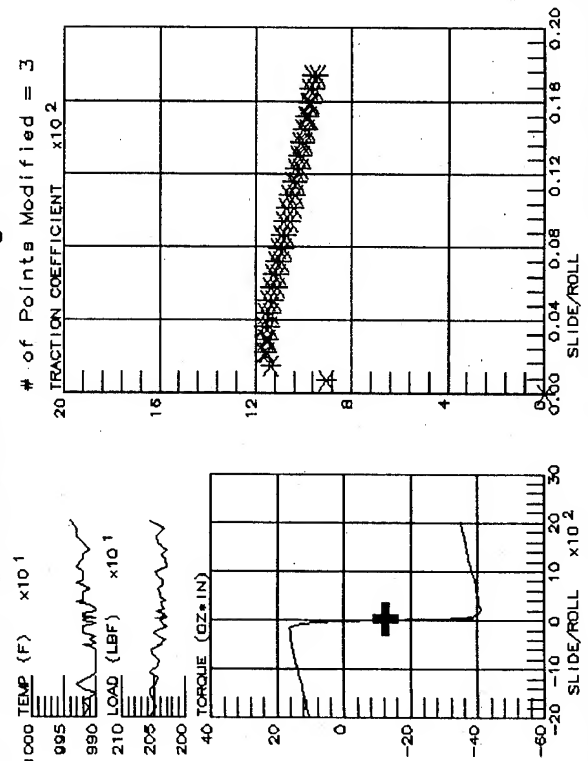
CG 66-92 Krytox 143 az FILE: cg100h
100F 3LBF 2550RPM #1

#2
CG 66-92 Krytox 143 az FILE: cg100h
100F 9LBF 2550RPM #2

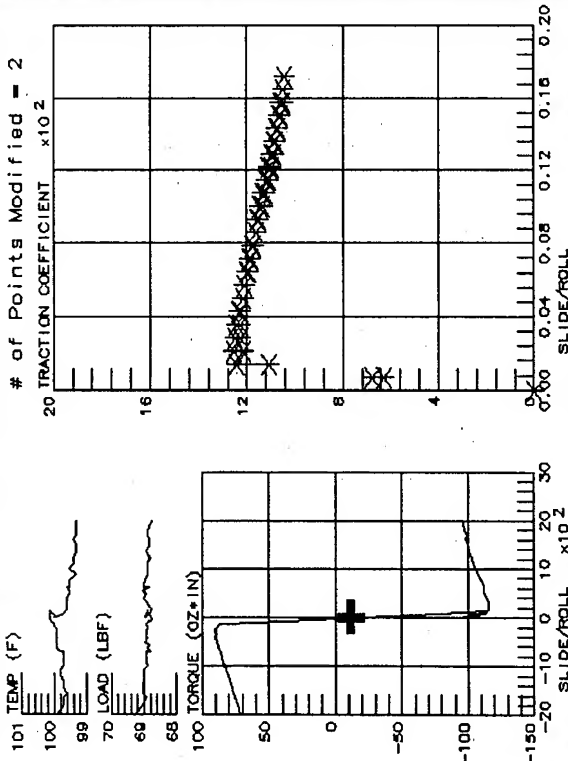


CG 66-92 Krytox 143 az FILE: cg100h
100F 21LBF 2550RPM #3

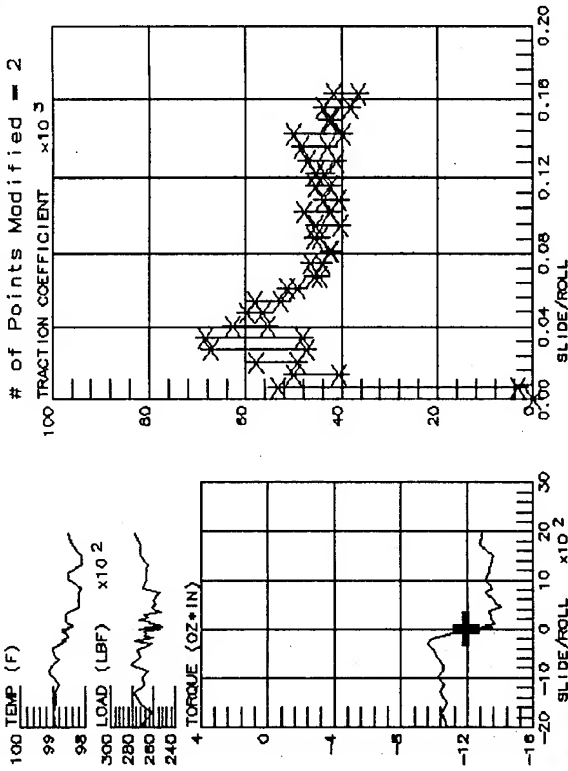
#4
CG 66-92 Krytox 143 az FILE: cg100h
100F 40LBF 2550RPM #4



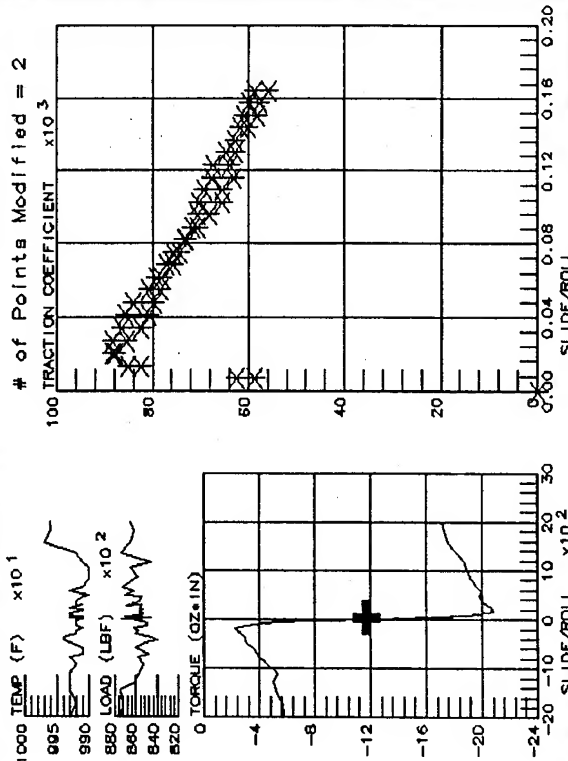
CG 66-92 Krytox 143 az FILE: cg100h #5
100F 70LBF 2560RPM #5



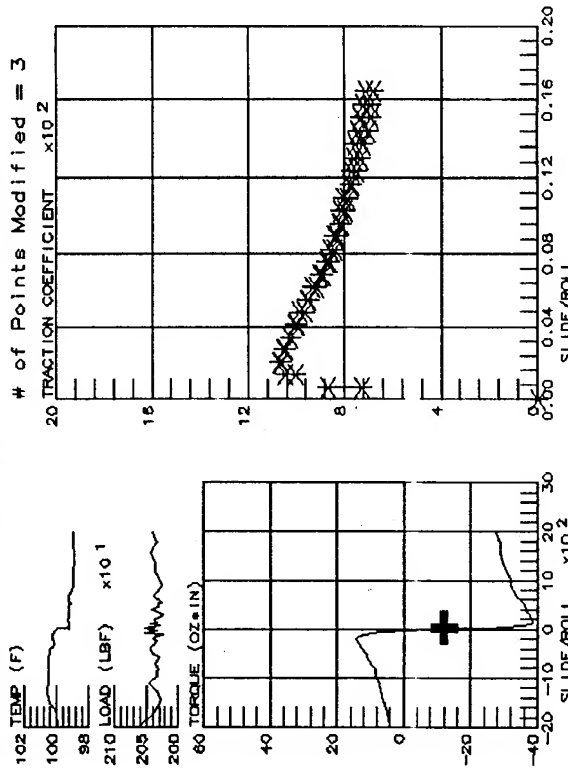
CG 66-92 Krytox 143 az FILE: cg100h #6
100F 3LBF 5100RPM #6



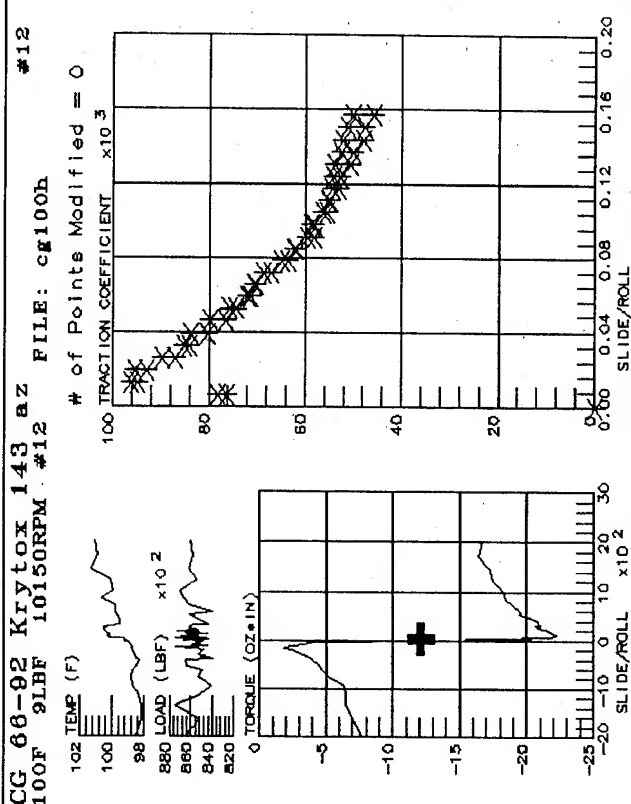
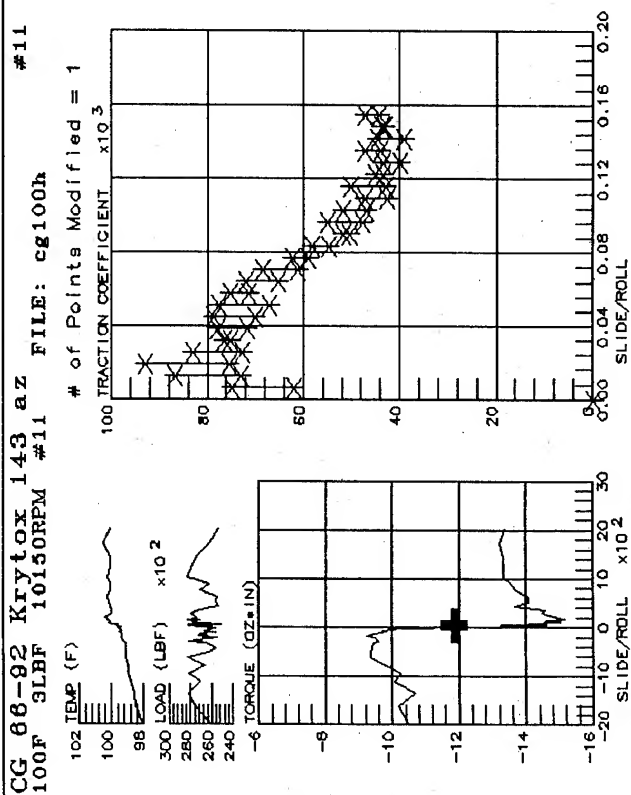
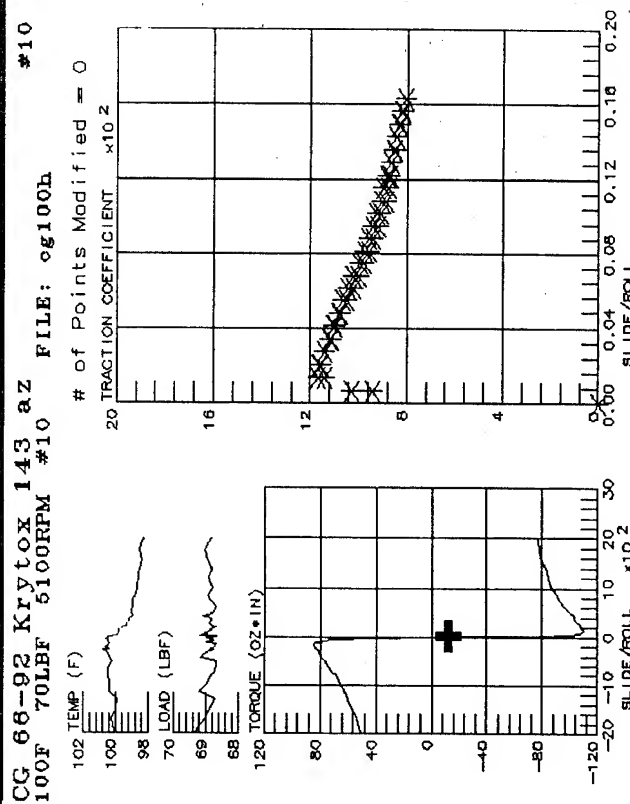
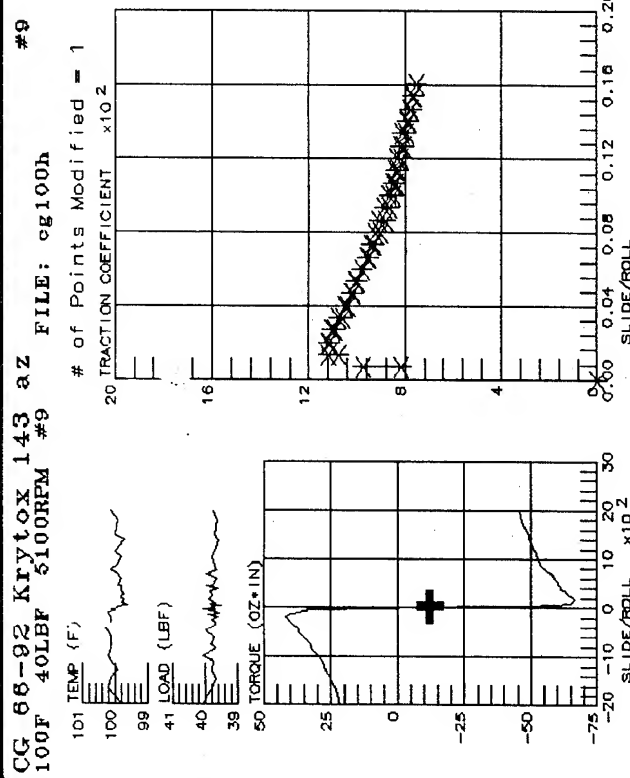
CG 66-92 Krytox 143 az FILE: cg100h #7
100F 9LBF 5100RPM #7



CG 66-92 Krytox 143 az FILE: cg100h #8
100F 21LBF 5100RPM #8



TRACTION DATA

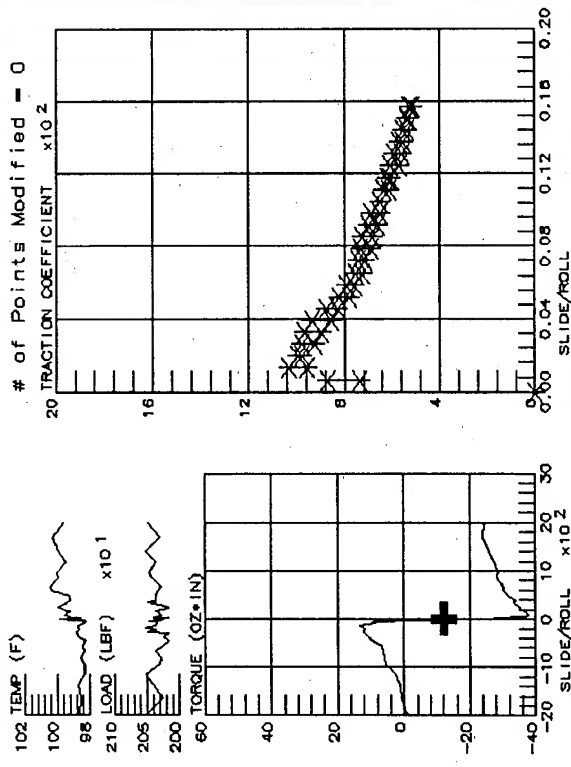


TRACTION DATA

CG 66-92 Krytox 143 az
100F 21LBF 10150RPM #13 FILE: cg100h

#13

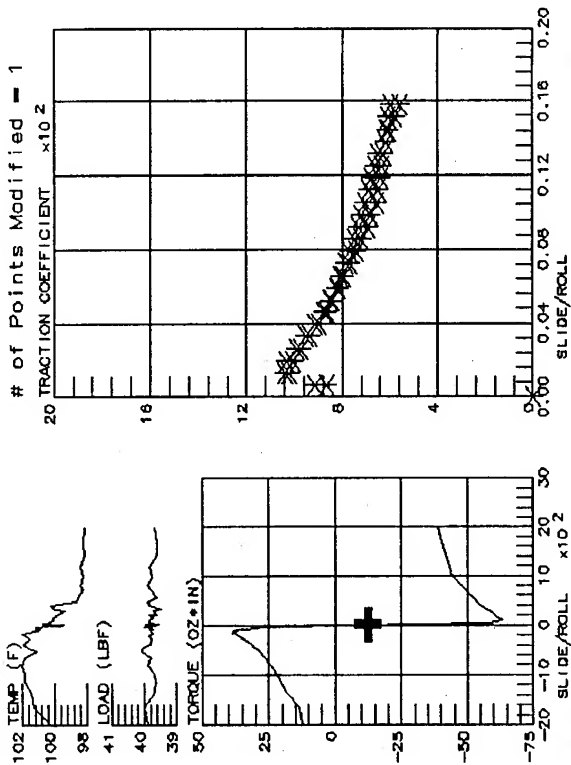
of Points Modified = 0



CG 66-92 Krytox 143 az
100F 40LBF 10150RPM #14 FILE: cg100h

#14

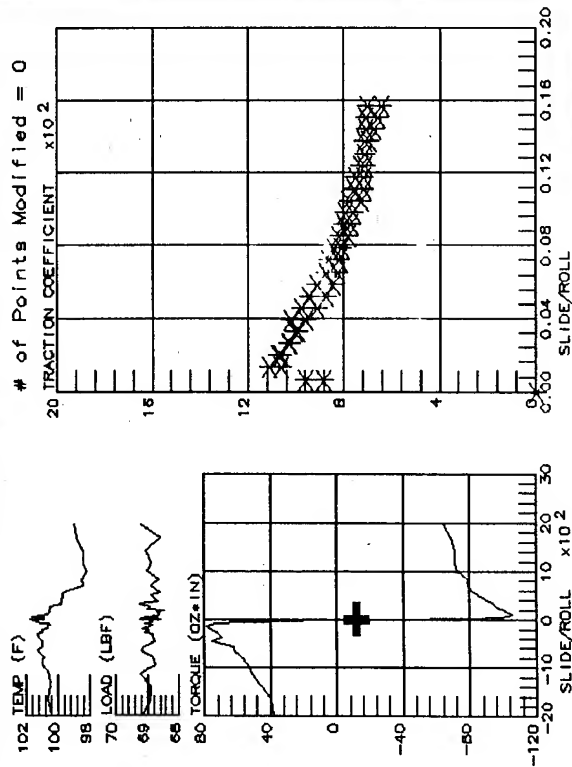
of Points Modified = 1



CG 66-92 Krytox 143 az
100F 70LBF 10150RPM #15 FILE: cg100h

#15

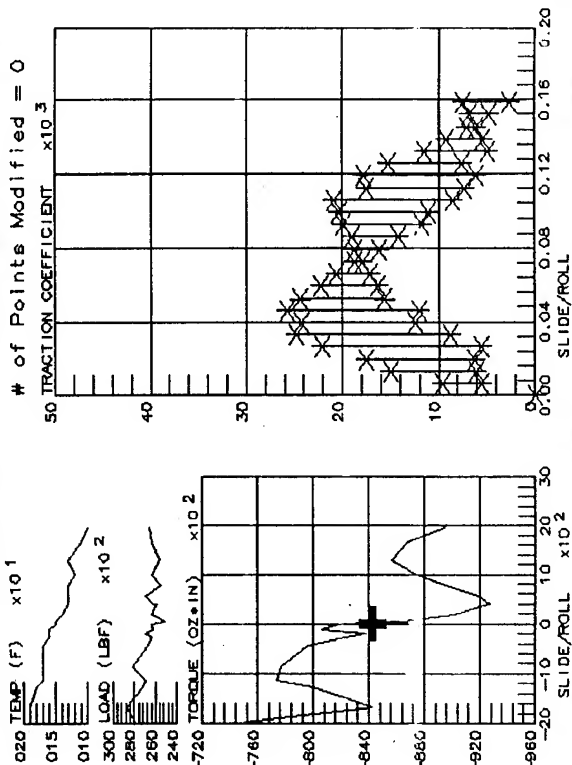
of Points Modified = 0



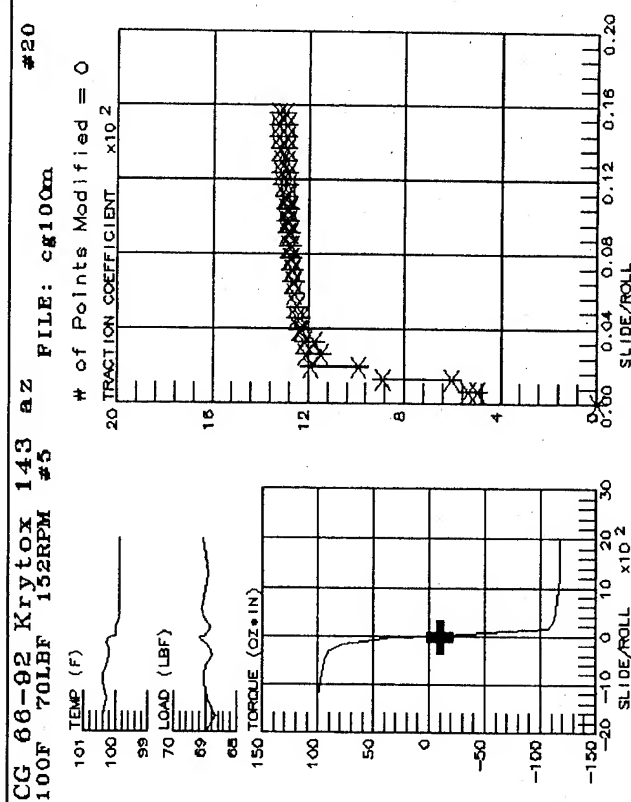
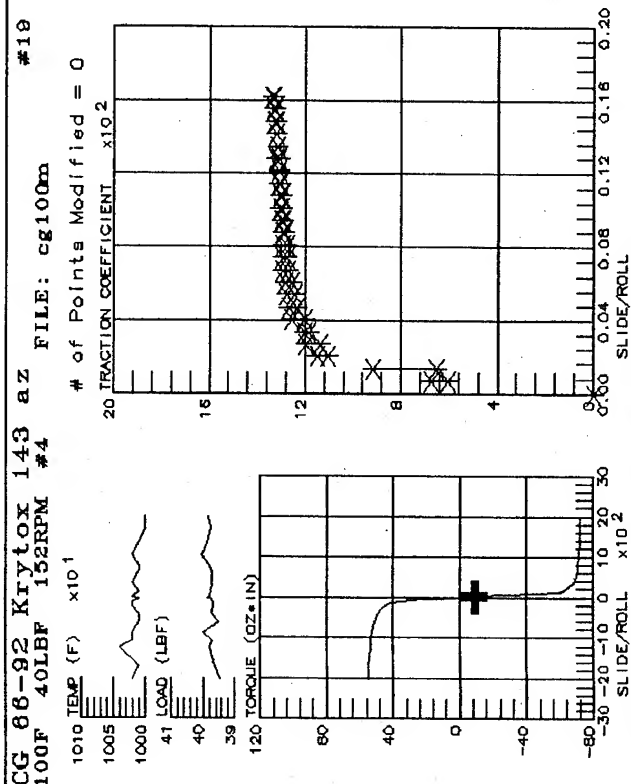
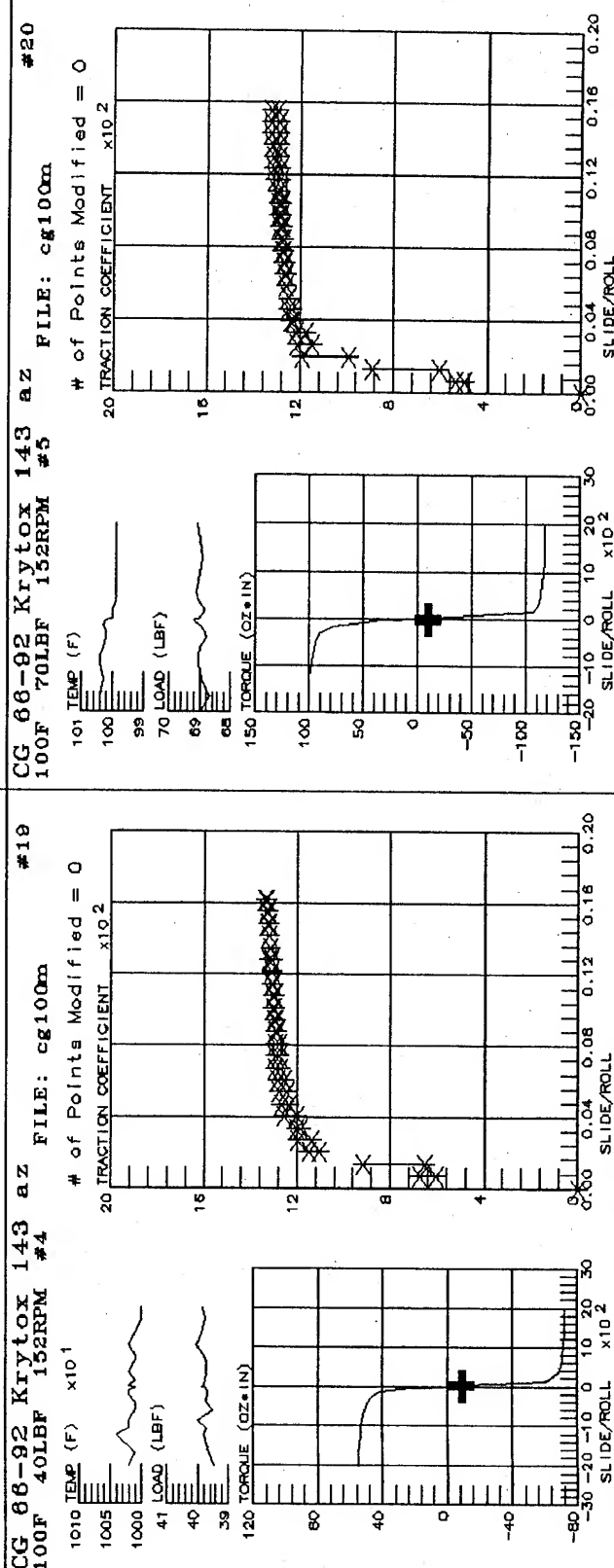
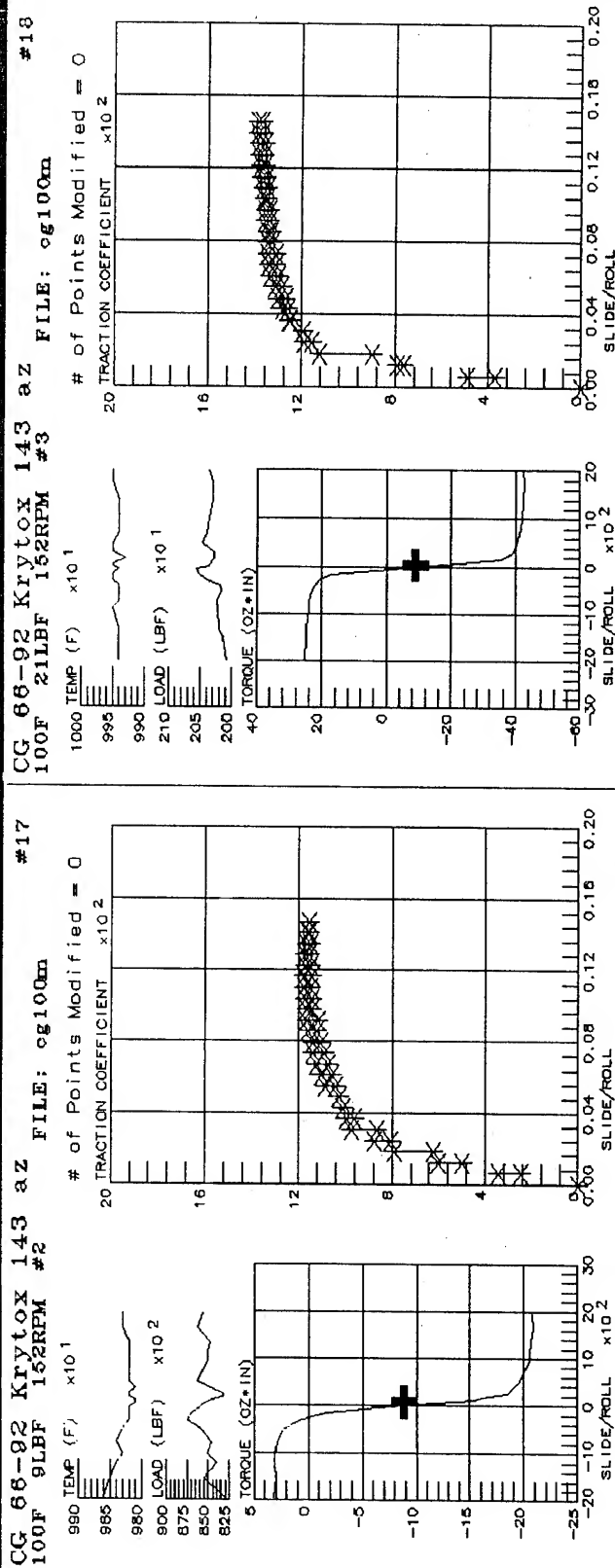
CG 66-92 Krytox 143 az
100F 31LBF 152RPM #1 FILE: cg100m

#16

of Points Modified = 0



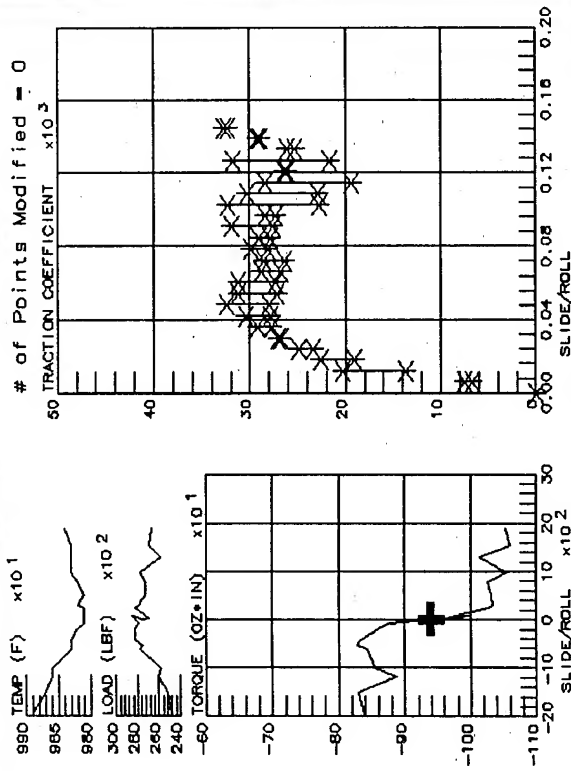
TRACTION DATA



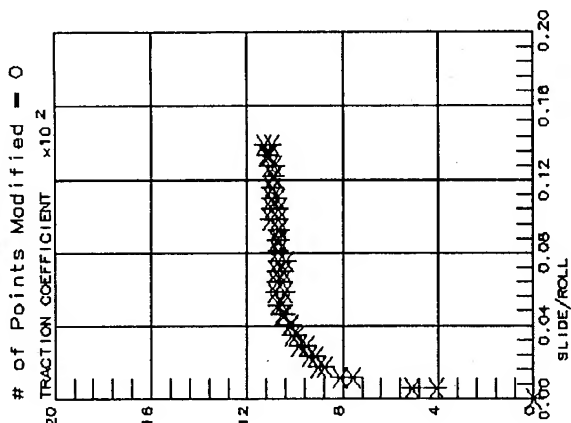
TRACTION DATA

CG 66-92 Krytox 143 az FILE: cg100m
100F 3LBF 310RPM #6

#21

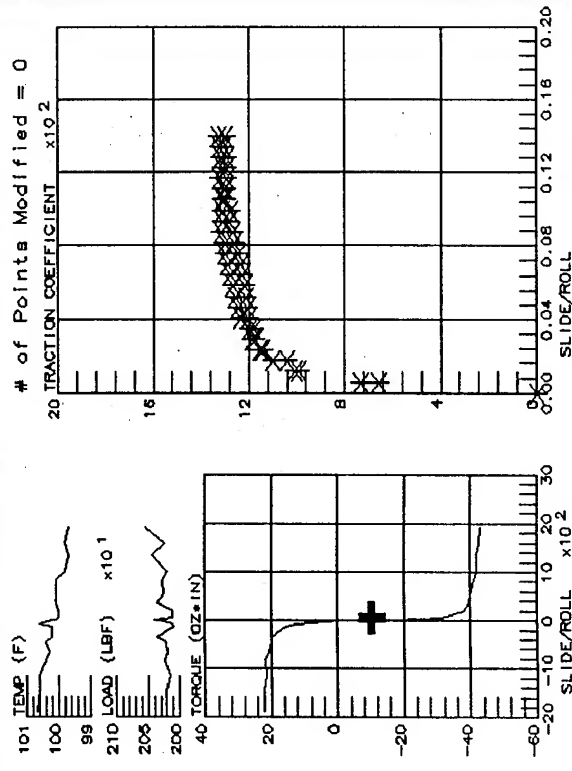


#22

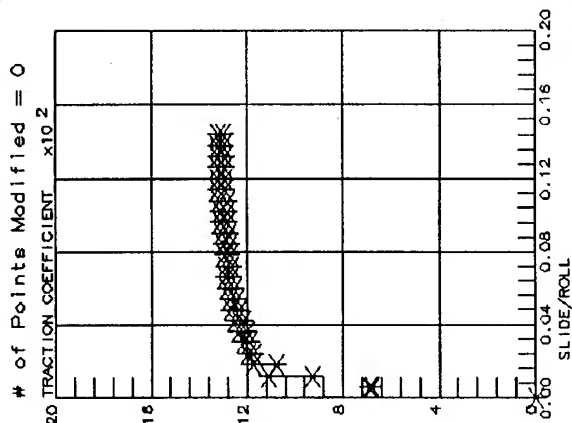


CG 66-92 Krytox 143 az FILE: cg100m
100F 21LBF 310RPM #8

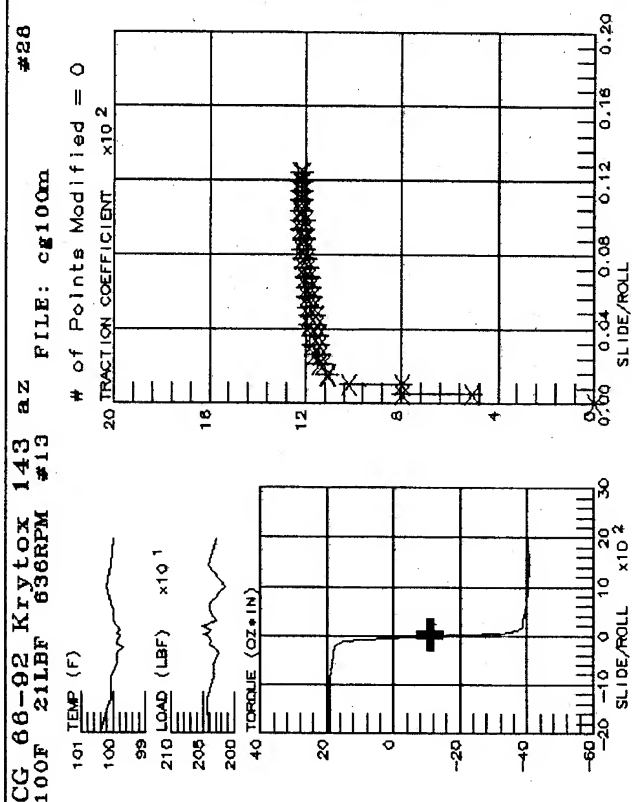
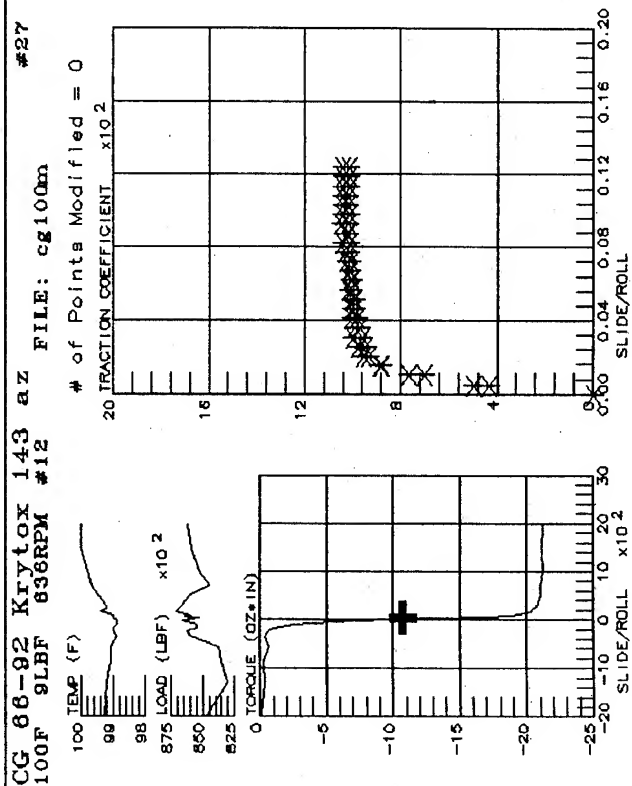
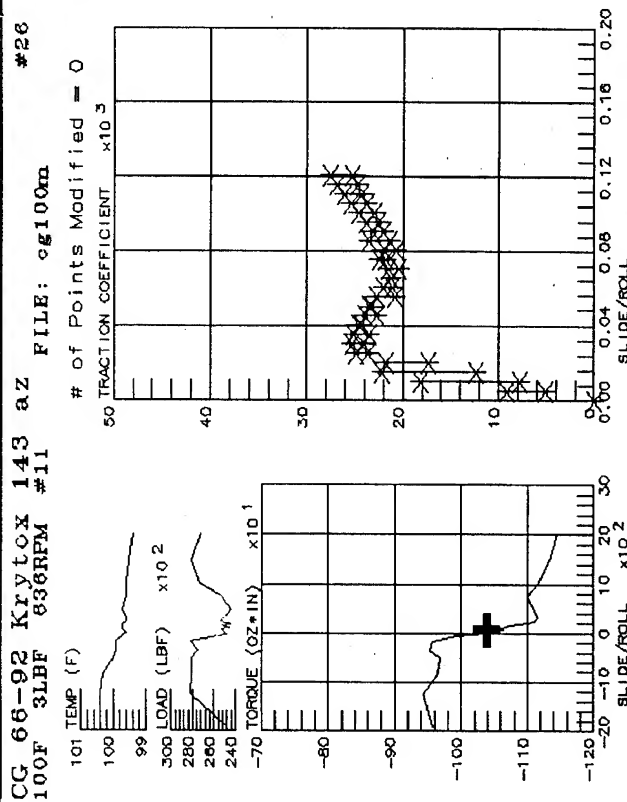
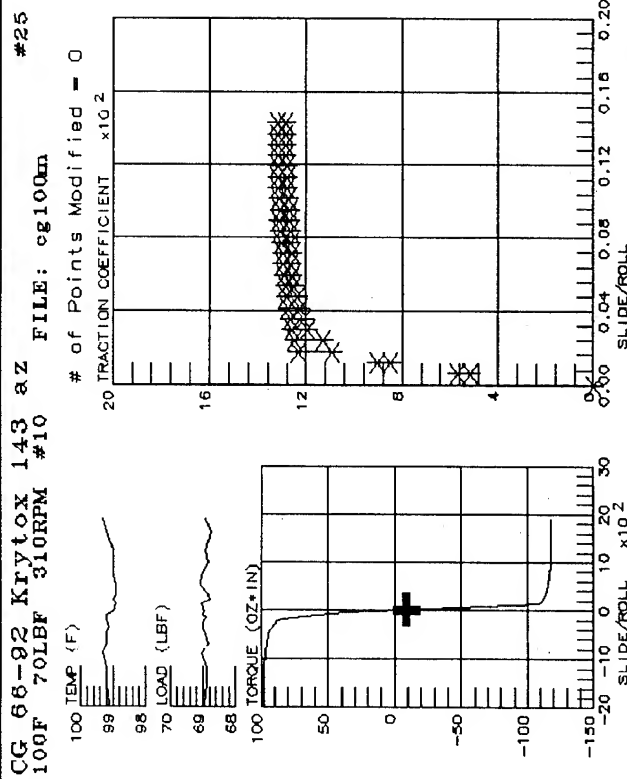
#23



#24

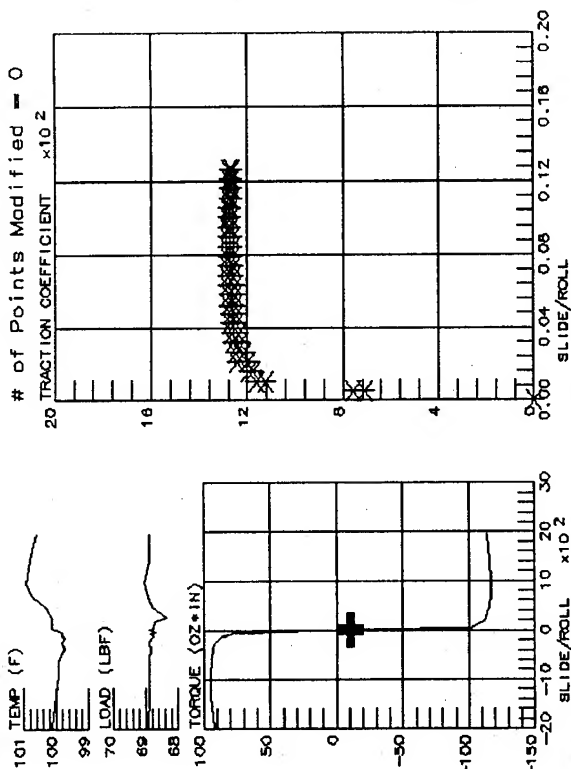


TRACTION DATA

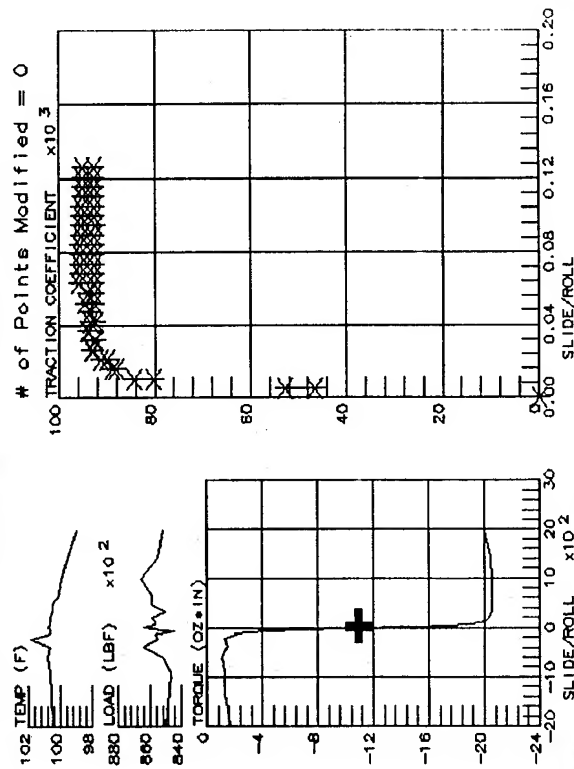


TRACITION DATA

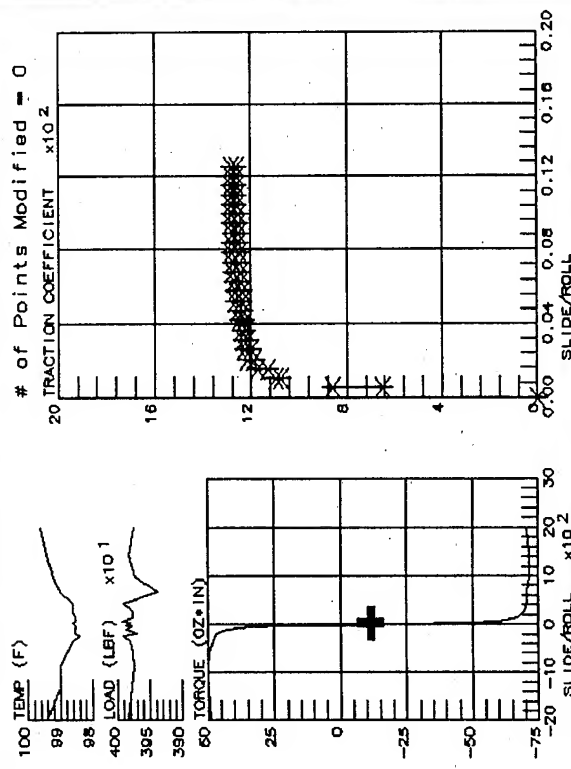
CG 66-92 Krytox 143 az FILE: cg100m
100F 70LBF 636RPM #15



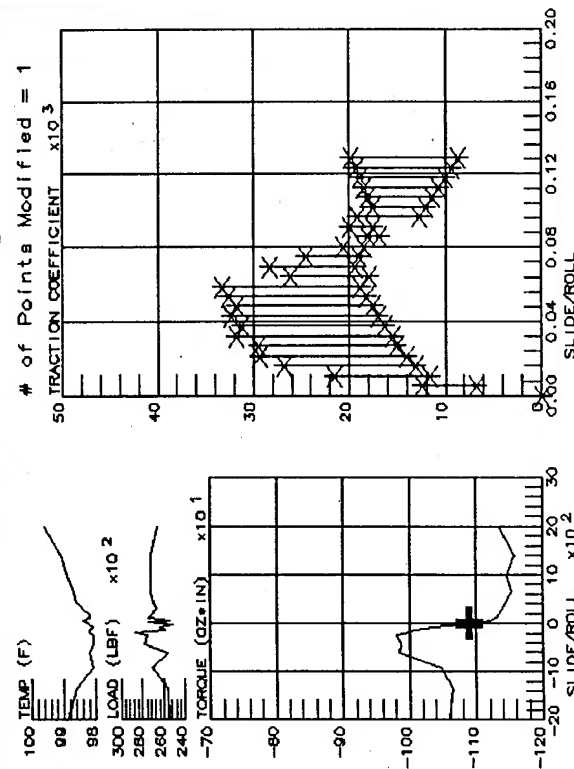
CG 66-92 Krytox 143 az FILE: cg100m
100F 9LBF 1270RPM #17



CG 66-92 Krytox 143 az FILE: cg100m
100F 40LBF 636RPM #14



CG 66-92 Krytox 143 az FILE: cg100m
100F 3LBF 1270RPM #16

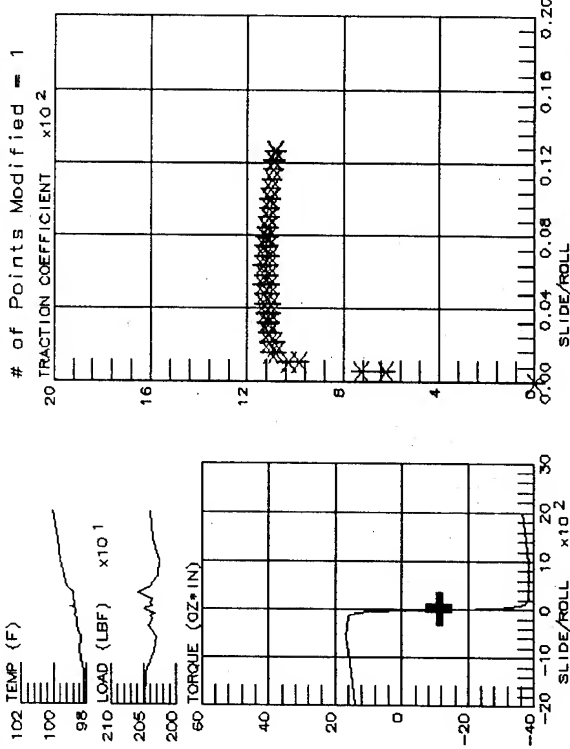


TRACTION DATA

CG 66-92 Krytox 143 az
100F 21LBF 1270RPM #18 FILE: cg100m

#33

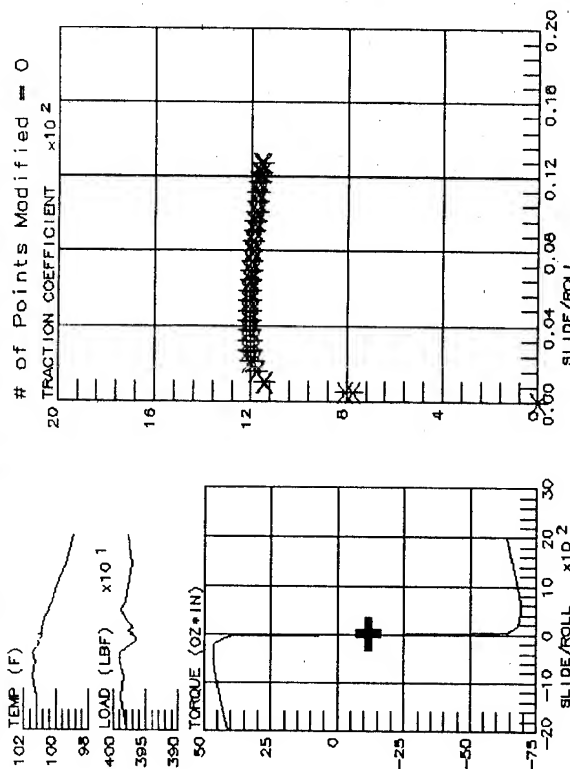
of Points Modified = 1



CG 66-92 Krytox 143 az
100F 40LBF 1270RPM #19 FILE: cg100m

#34

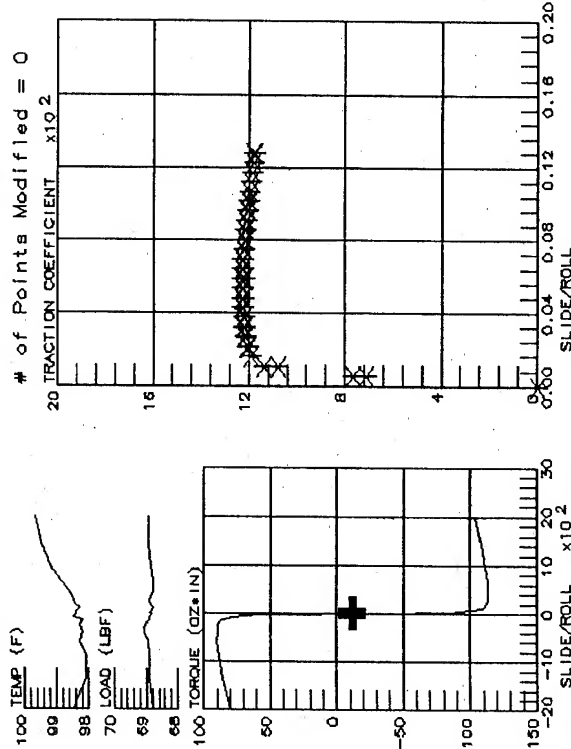
of Points Modified = 0



CG 66-92 Krytox 143 az
100F 70LBF 1270RPM #20 FILE: cg100m

#35

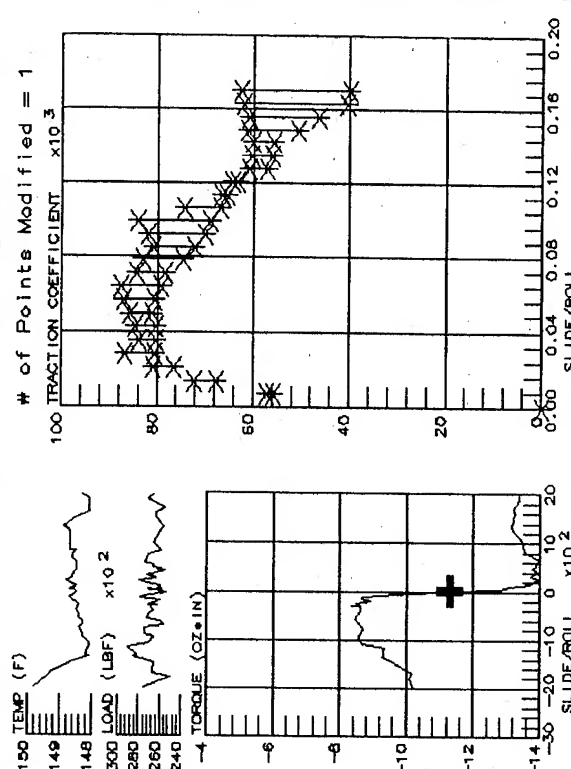
of Points Modified = 0



CG 66-92 Krytox 143 az
150F 3LBF 2550RPM #1 FILE: cg150h

#36

of Points Modified = 1



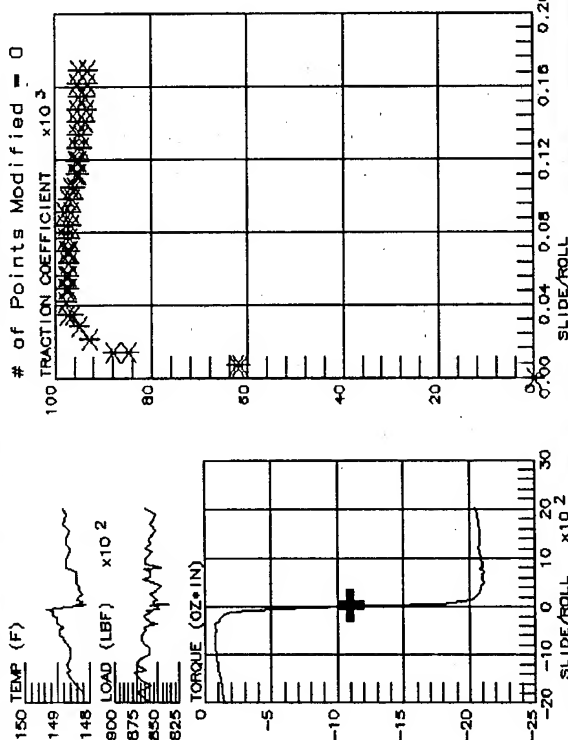
TRACTION DATA

CG 66-92 Krytox 143 az
150F 9LBF 2550RPM #2

#37

FILE: cg150h

of Points Modified = 0

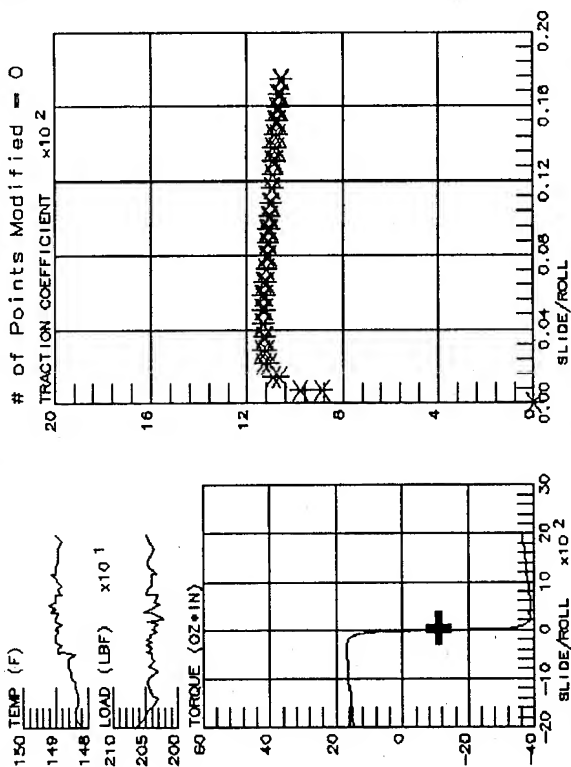


CG 66-92 Krytox 143 az
150F 21LBF 2550RPM #3

#38

FILE: cg150h

of Points Modified = 0

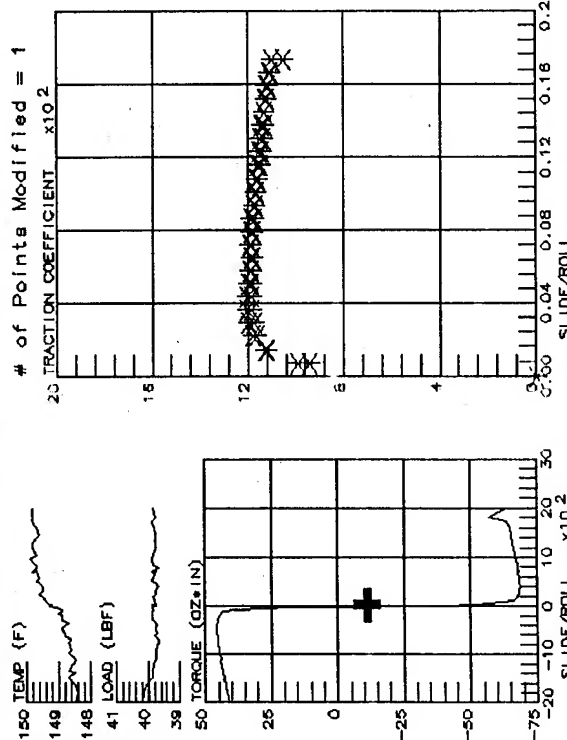


CG 66-92 Krytox 143 az
150F 40LBF 2550RPM #4

#39

FILE: cg150h

of Points Modified = 1

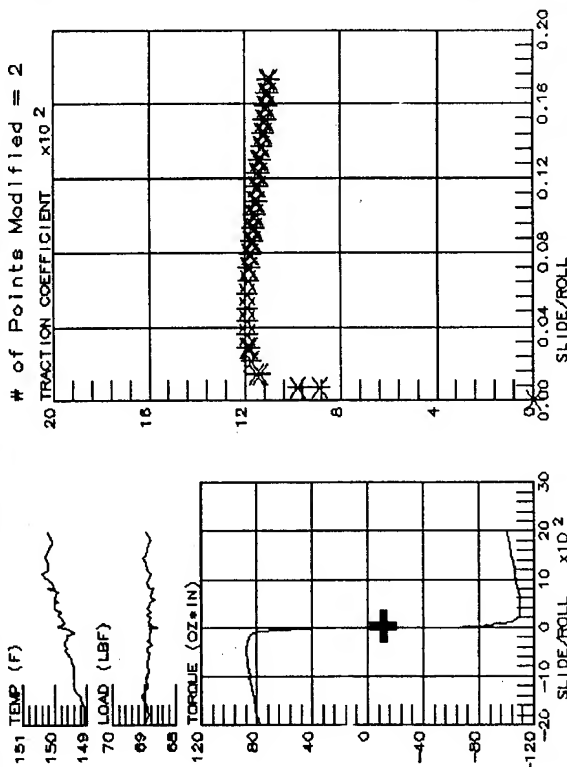


CG 66-92 Krytox 143 az
150F 70LBF 2550RPM #5

#40

FILE: cg150h

of Points Modified = 2

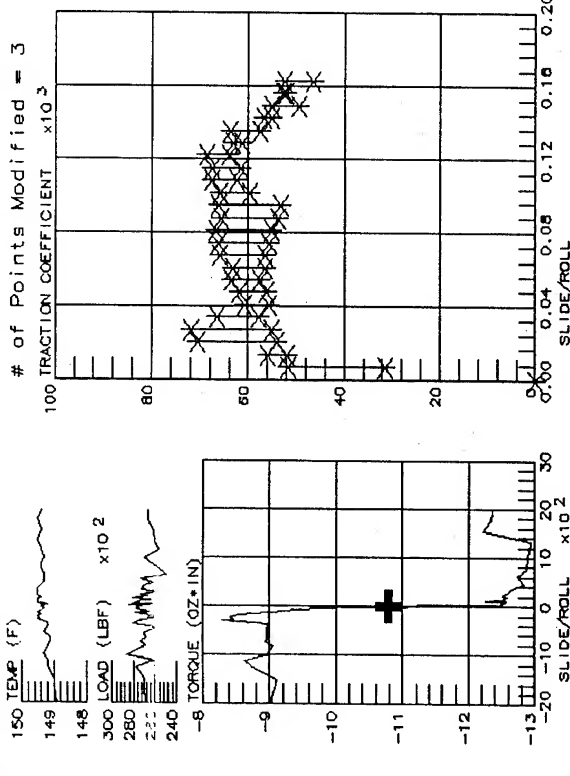


TRACTION DATA

CG 66-92 Krytox 143 az FILE: cg150h #6

#41

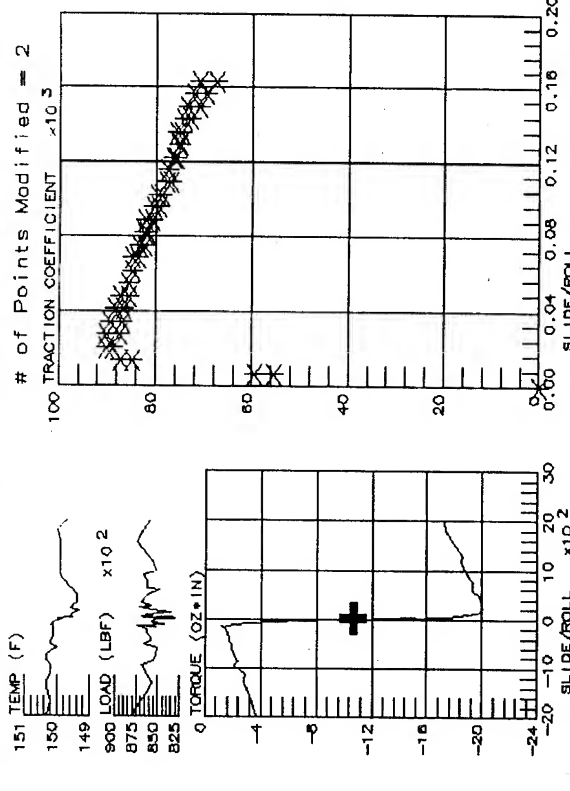
of Points Modified = 3



CG 66-92 Krytox 143 az FILE: cg150h #7

#42

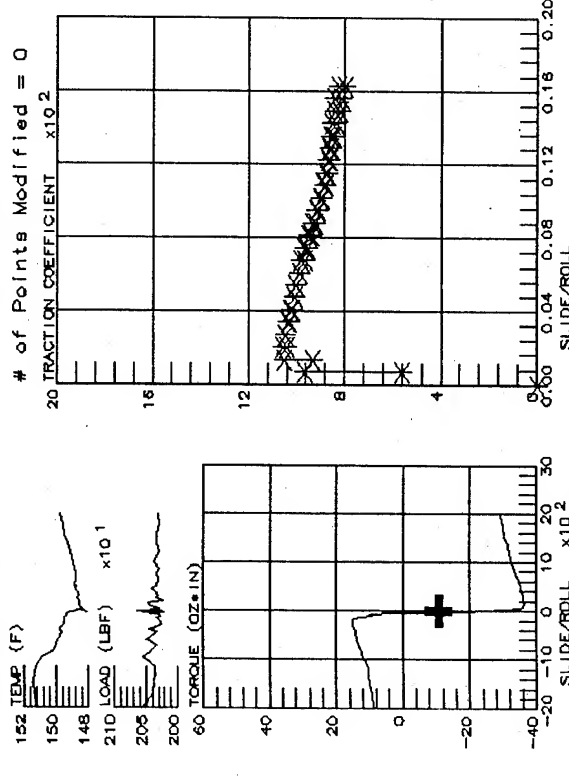
of Points Modified = 2



CG 66-92 Krytox 143 az FILE: cg150h #8

#43

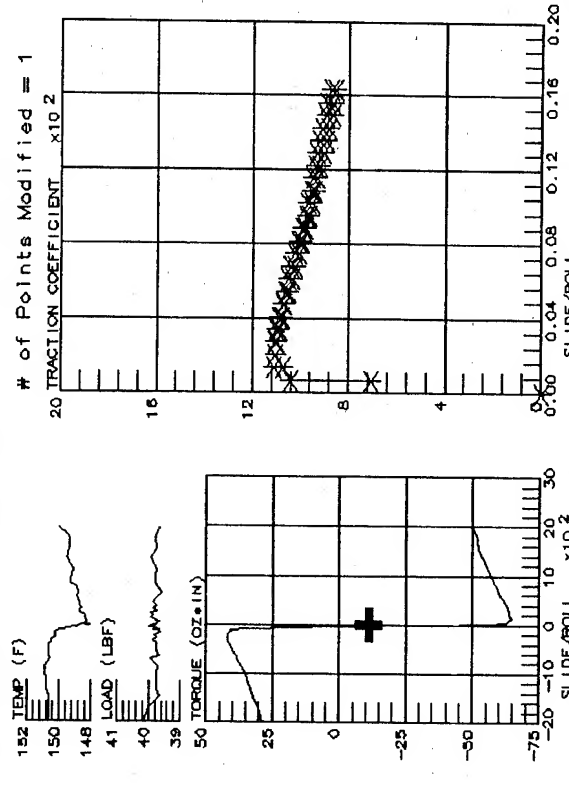
of Points Modified = 0



CG 66-92 Krytox 143 az FILE: cg150h #9

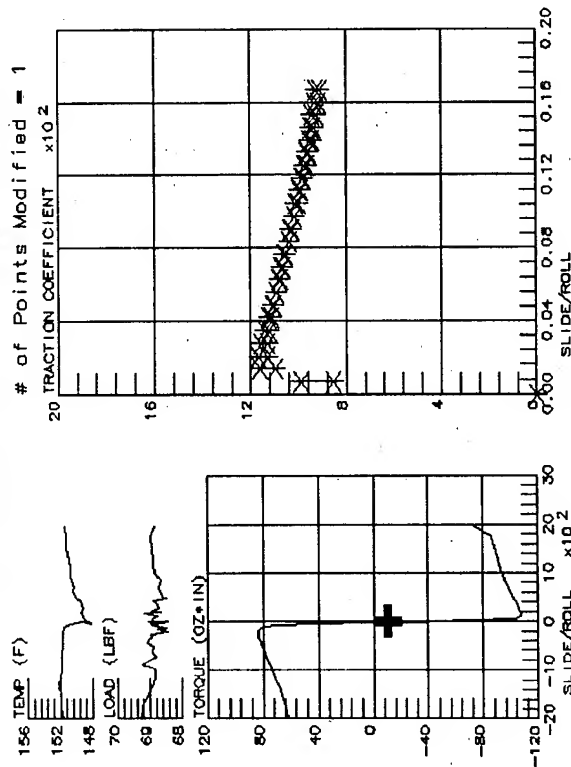
#44

of Points Modified = 1

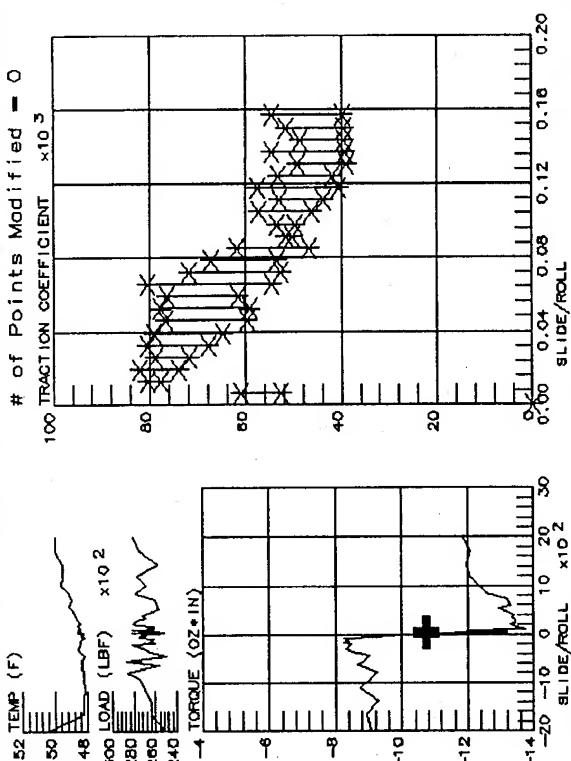


TRACTION DATA

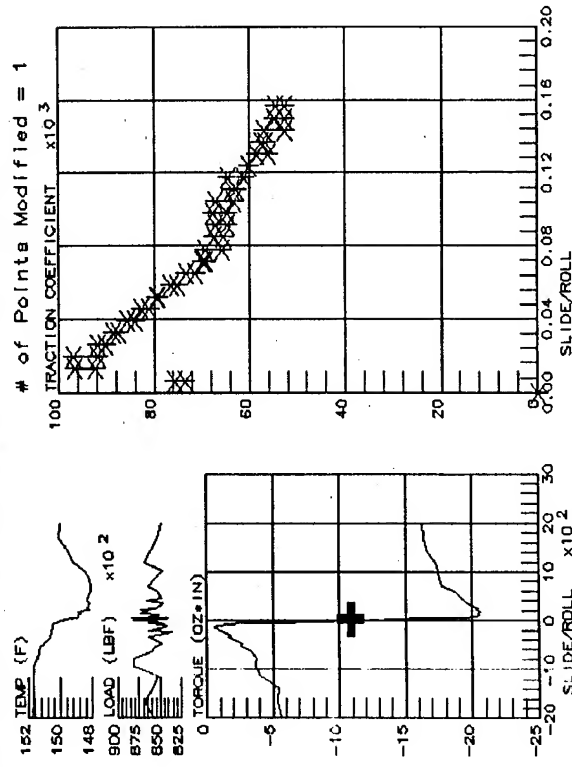
CG 66-92 Krytox 143 az FILE: cg150h
150F 70LBF 5100RPM #10



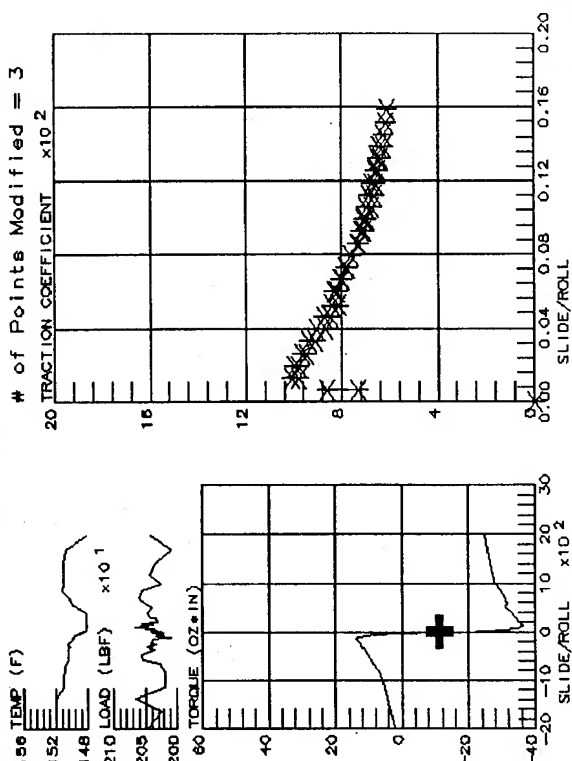
CG 66-92 Krytox 143 az FILE: cg150h
150F 3LBF 10150RPM #11



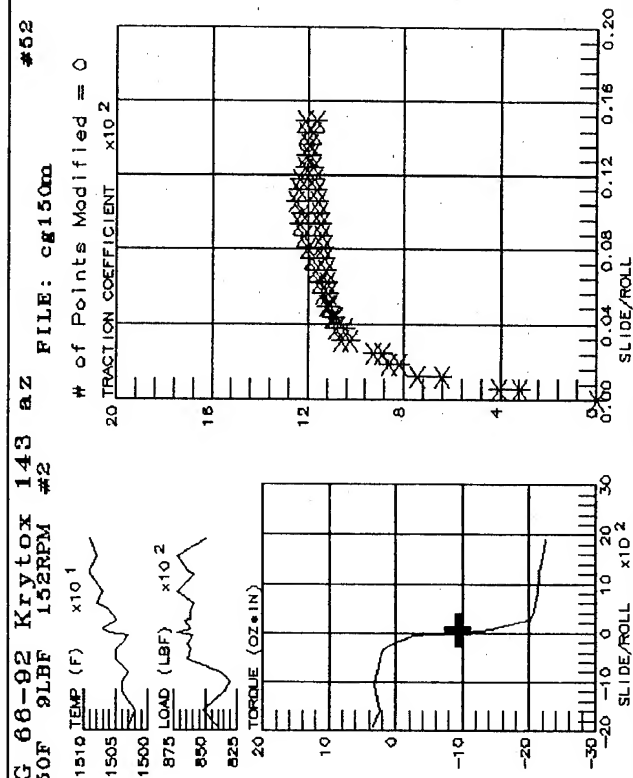
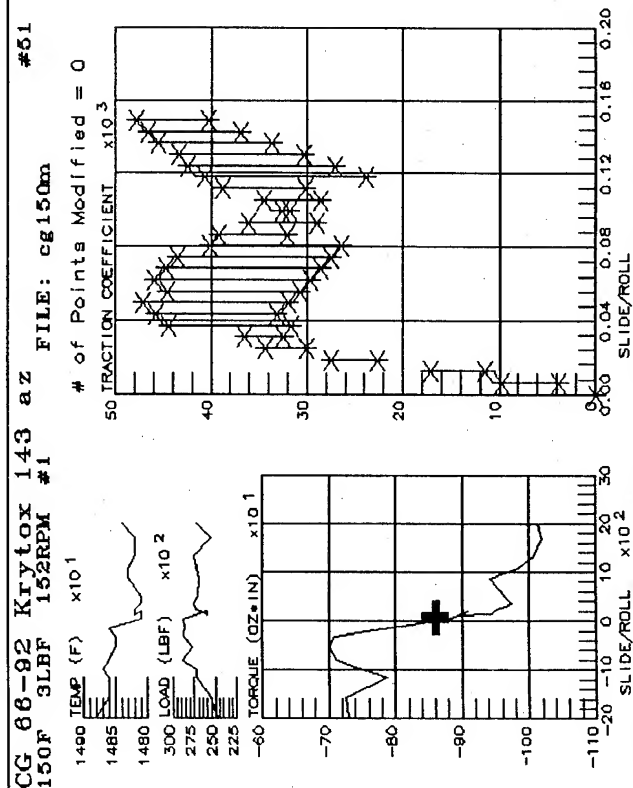
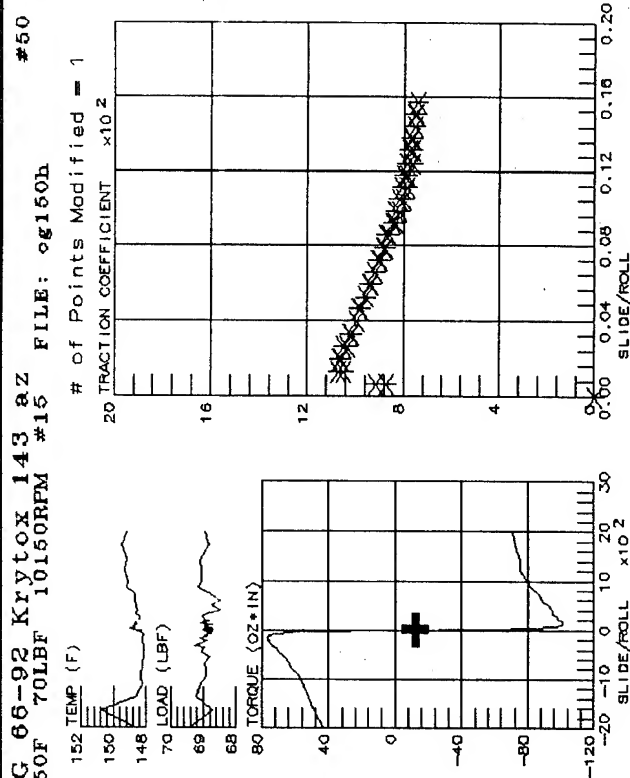
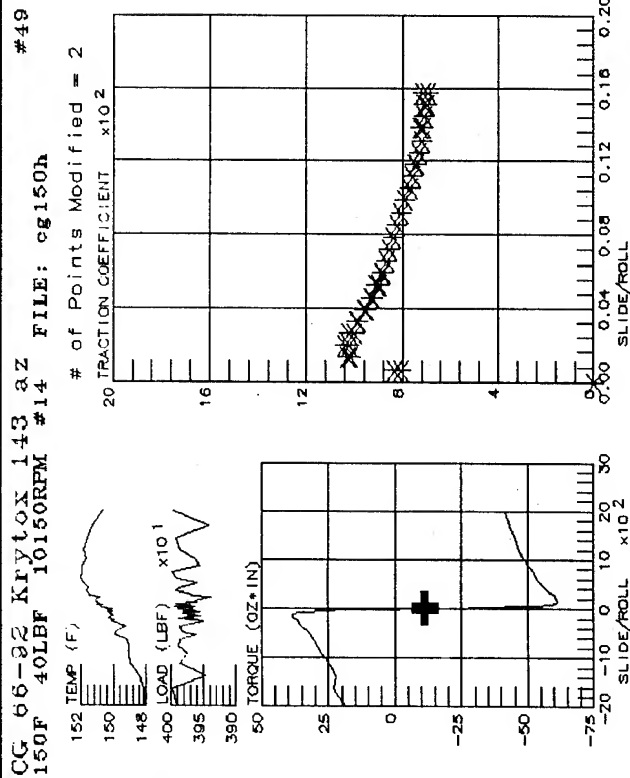
CG 66-92 Krytox 143 az FILE: cg150h
150F 9LBF 10150RPM #12

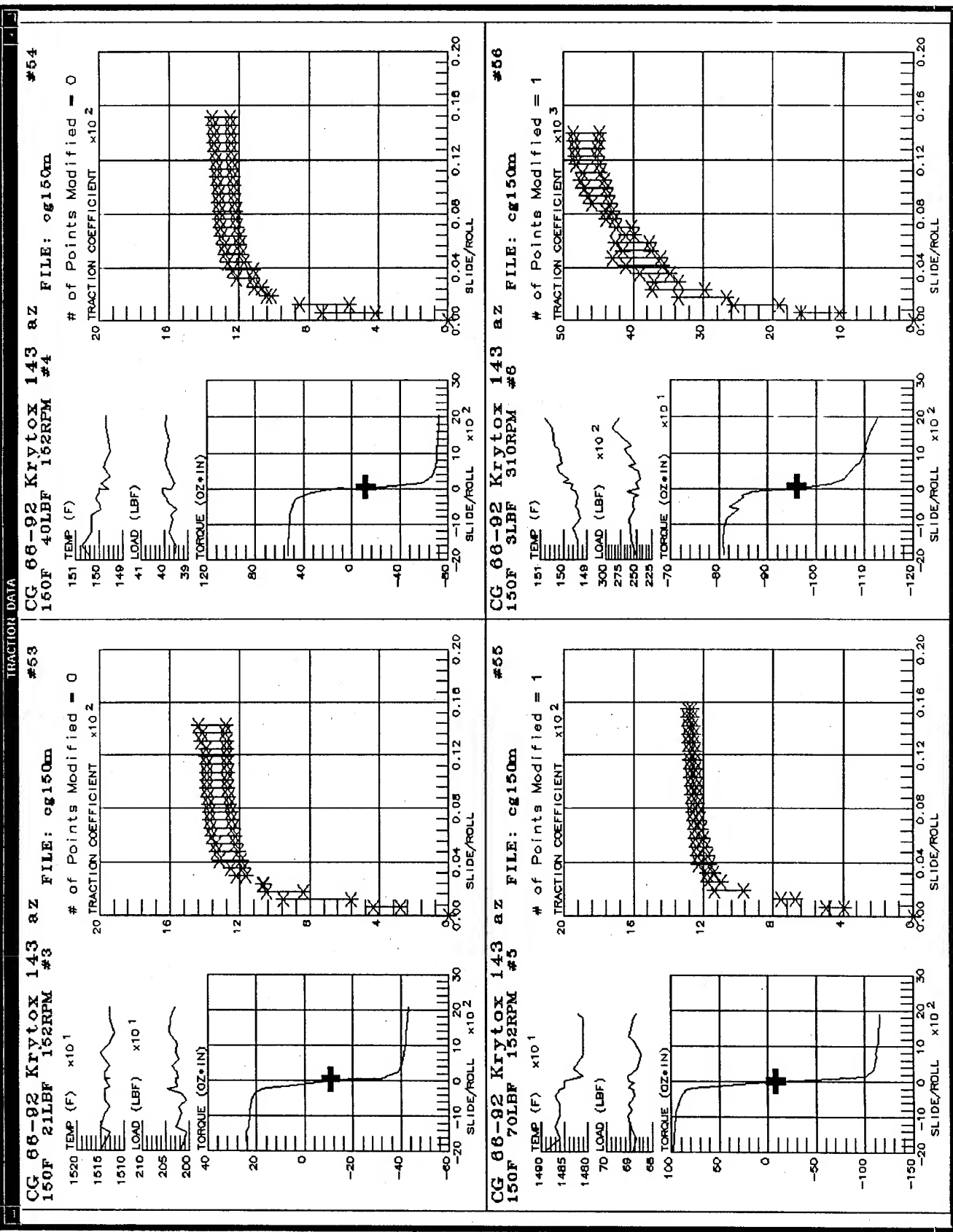


CG 66-92 Krytox 143 az FILE: cg150h
150F 21LBF 10150RPM #13



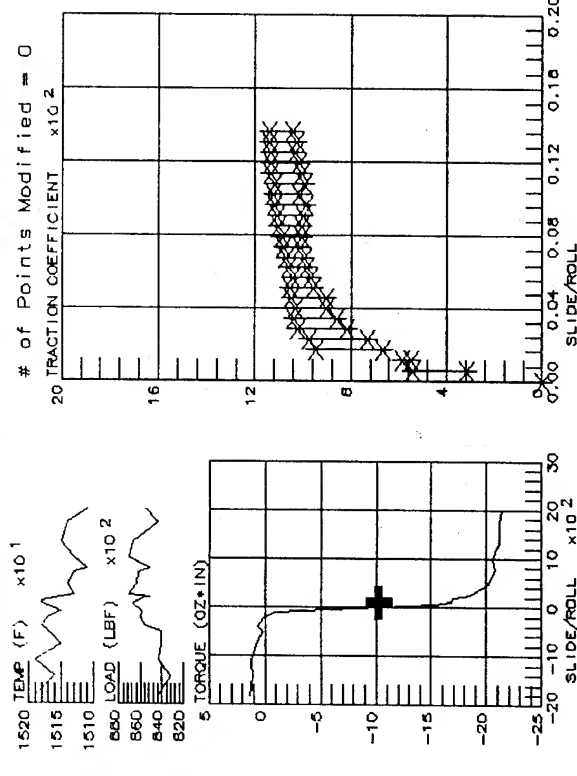
TRACTION DATA



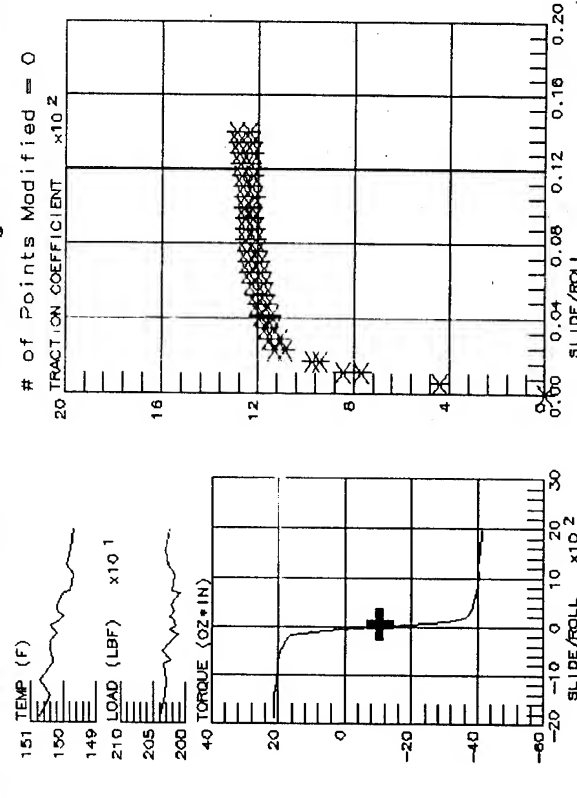


TRACTION DATA

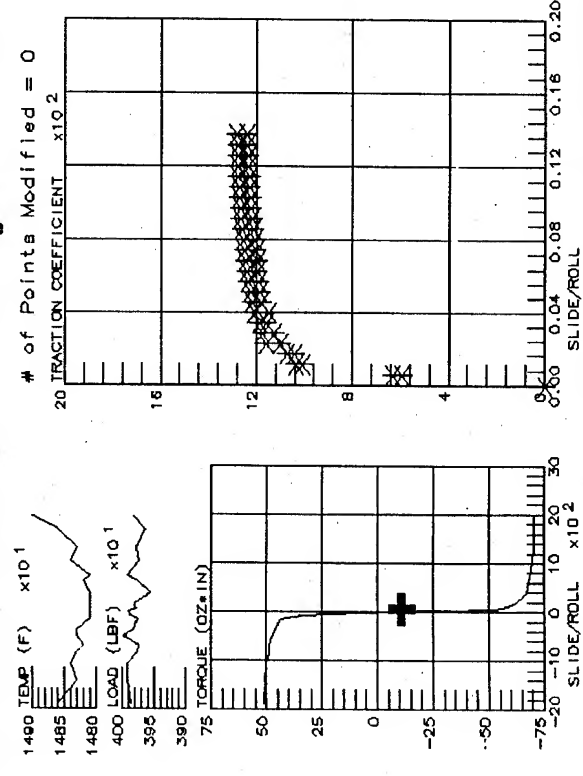
CG 66-92 Krytox 143 az FILE: cg150m #57
150F 9LBF 310RPM #7



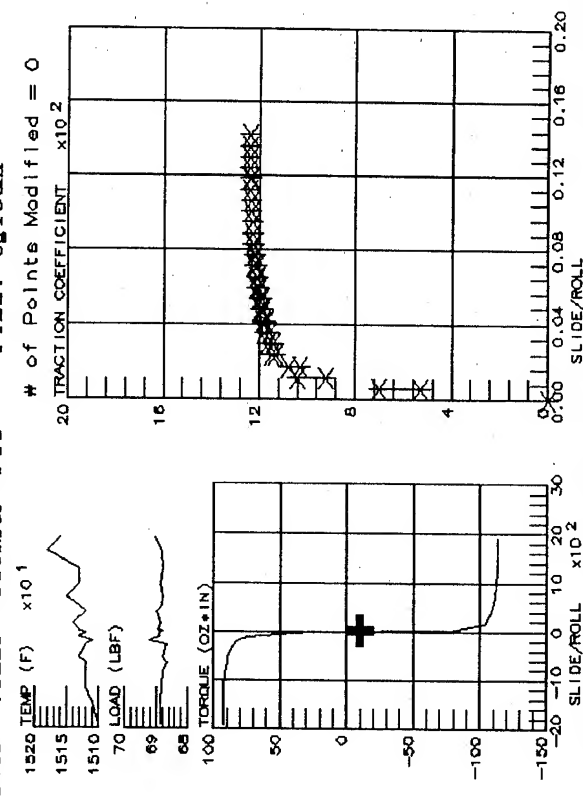
CG 66-92 Krytox 143 az FILE: cg150m #58
150F 21LBF 310RPM #8



CG 66-92 Krytox 143 az FILE: cg150m #59
150F 40LBF 310RPM #9

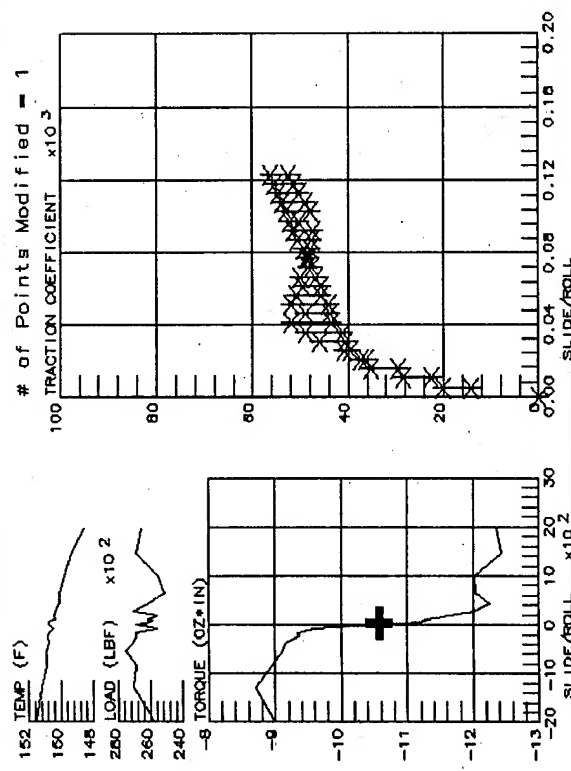


CG 66-92 Krytox 143 az FILE: cg150m #60
150F 70LBF 310RPM #10

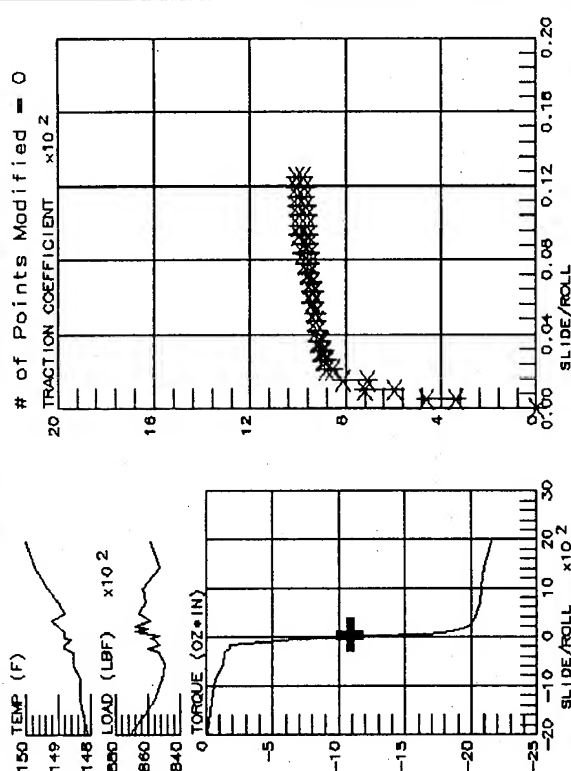


TRACTION DATA

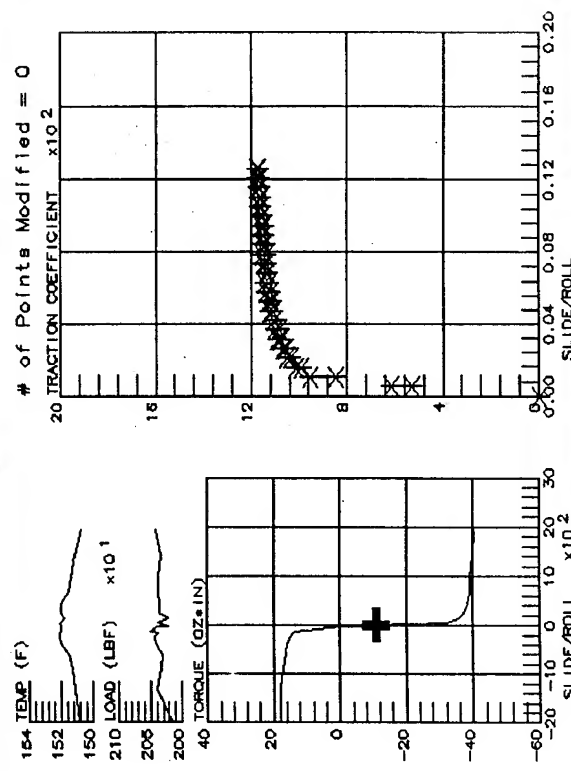
CG 66-92 Krytox 143 az FILE: cg150m #61
150F 3LBF 636RPM #11



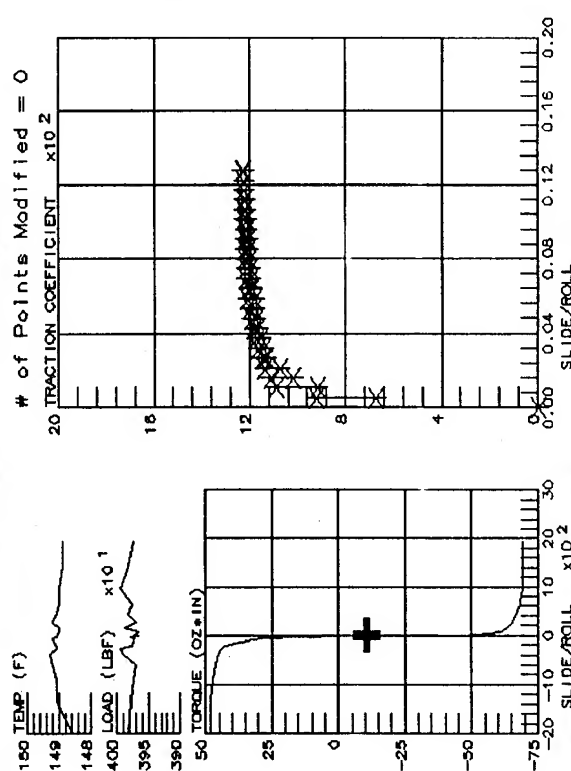
CG 66-92 Krytox 143 az FILE: cg150m #62
150F 9LBF 636RPM #12



CG 66-92 Krytox 143 az FILE: cg150m #63
150F 21LBF 636RPM #13



CG 66-92 Krytox 143 az FILE: cg150m #64
150F 40LBF 636RPM #14



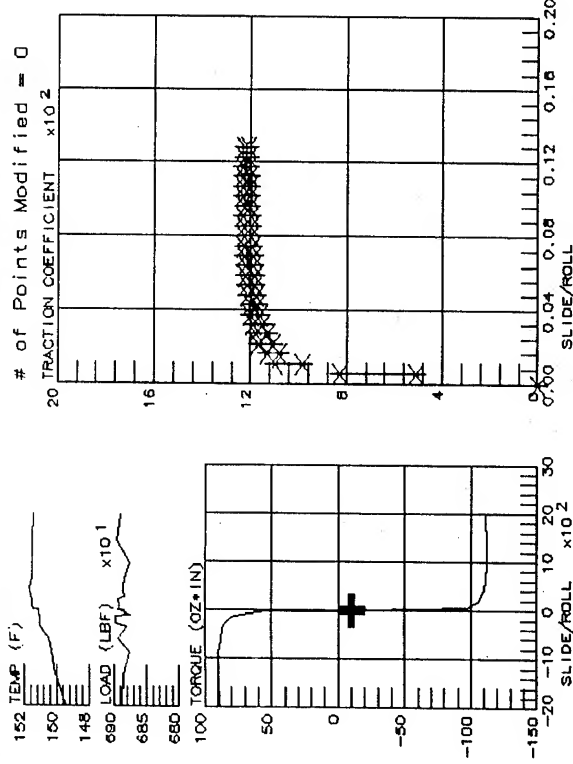
TRACTION DATA

CG 66-92 Krytox 143 az
150F 70LBF 636RPM #16

#65

FILE: cg150m

of Points Modified = 0

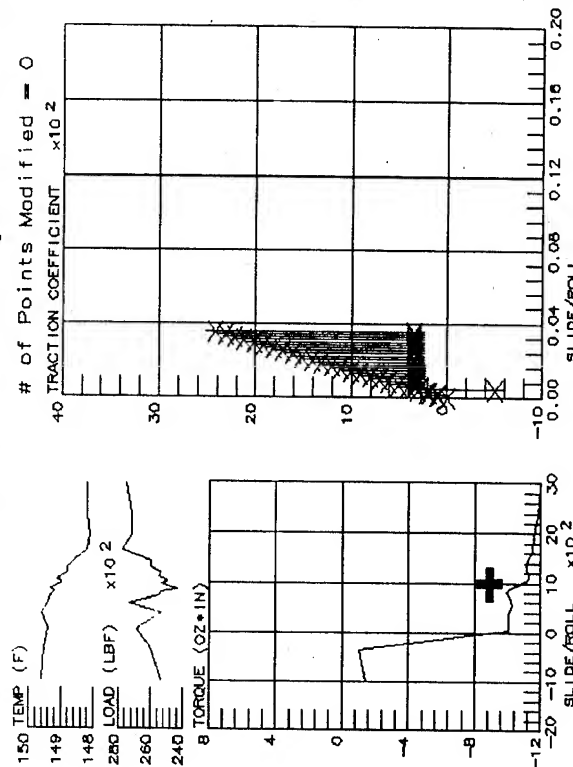


CG 66-92 Krytox 143 az
150F 3LBF 1270RPM #16

#66

FILE: cg150m

of Points Modified = 0

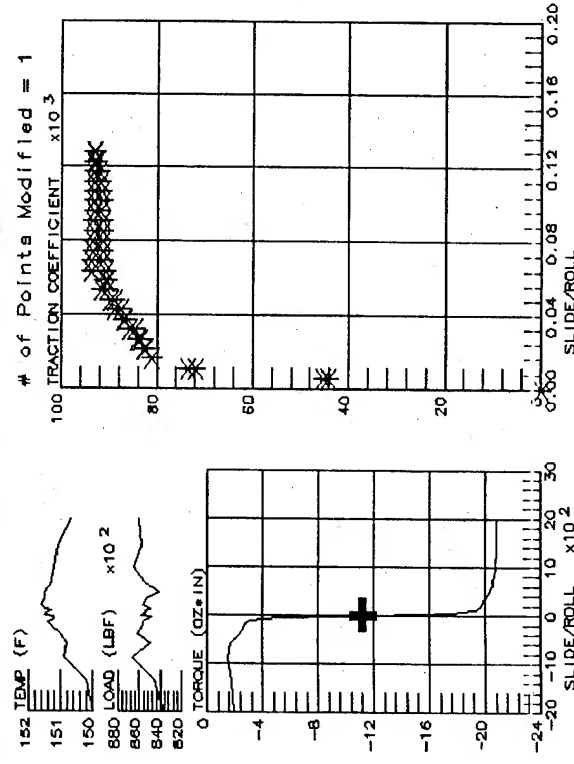


CG 66-92 Krytox 143 az
150F 9LBF 1270RPM #17

#67

FILE: cg150m

of Points Modified = 1

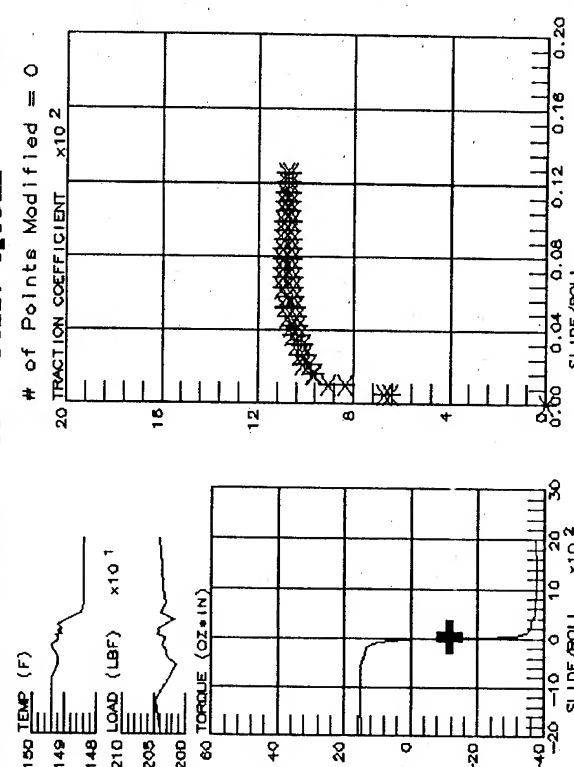


CG 66-92 Krytox 143 az
150F 21LBF 1270RPM #18

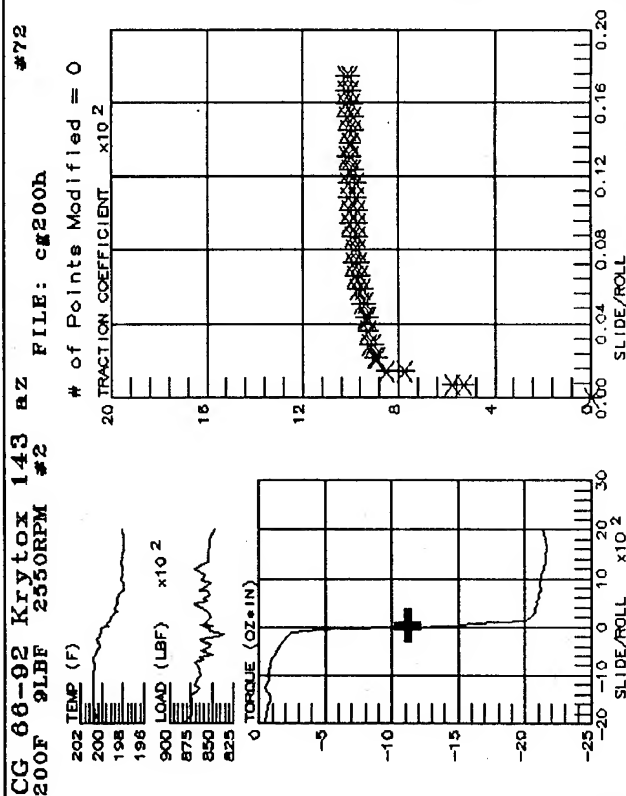
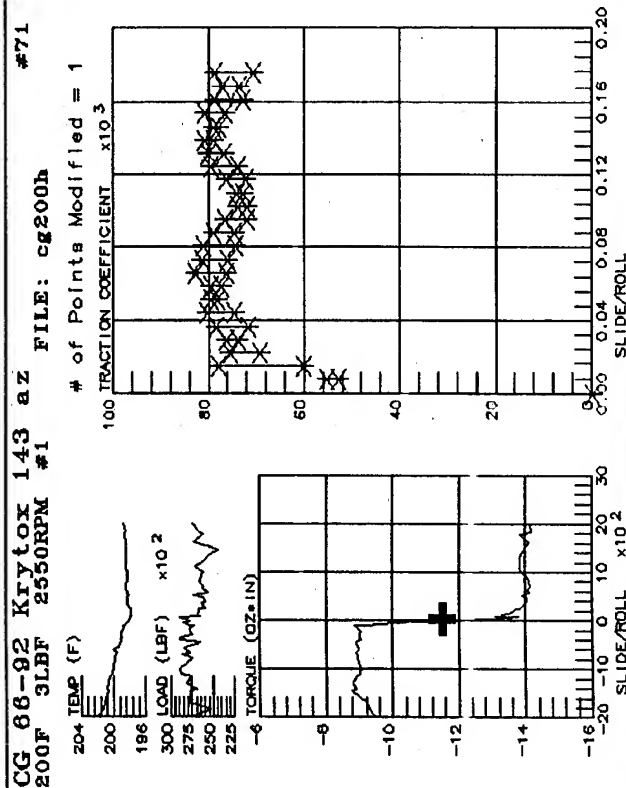
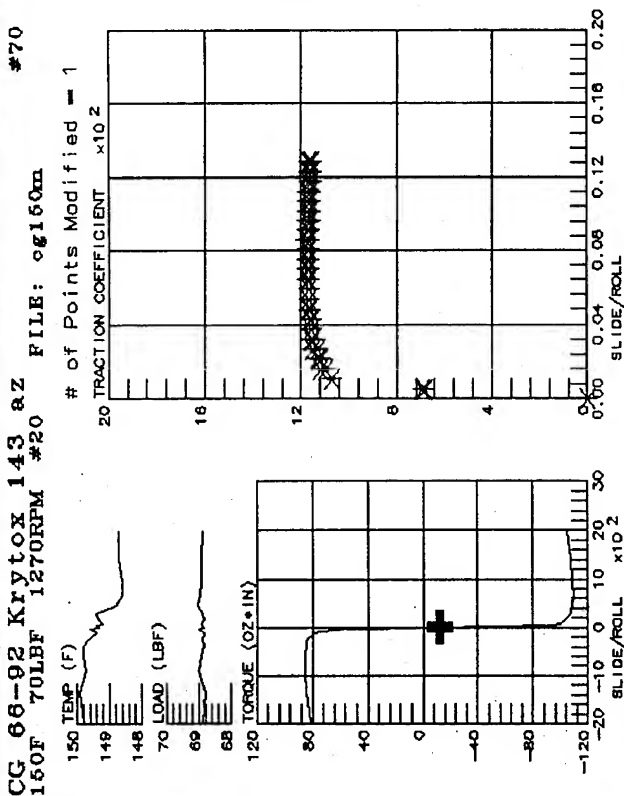
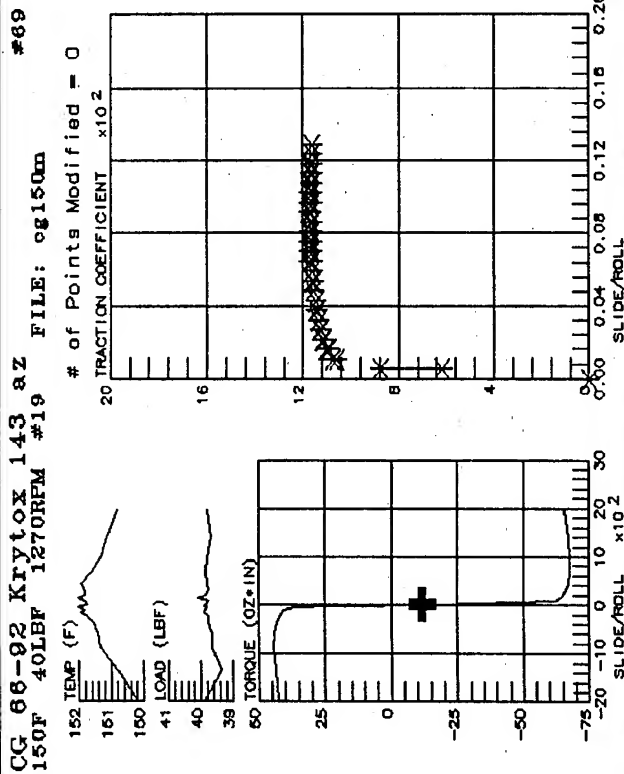
#68

FILE: cg150m

of Points Modified = 0

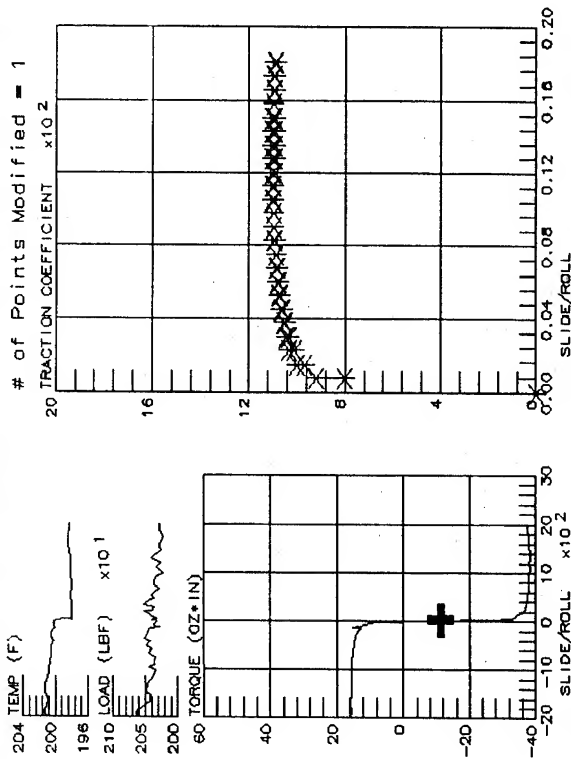


TRACTION DATA

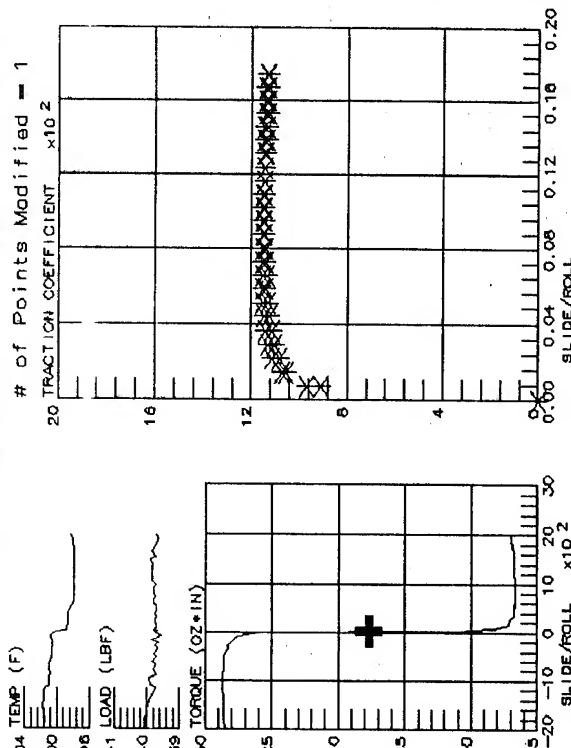


TRACTION DATA

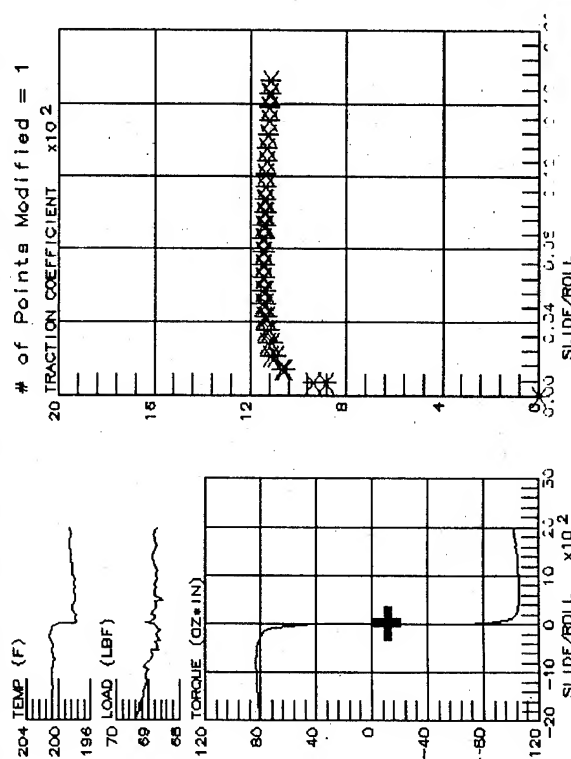
CG 66-92 Krytox 143 az FILE: cg200h #73



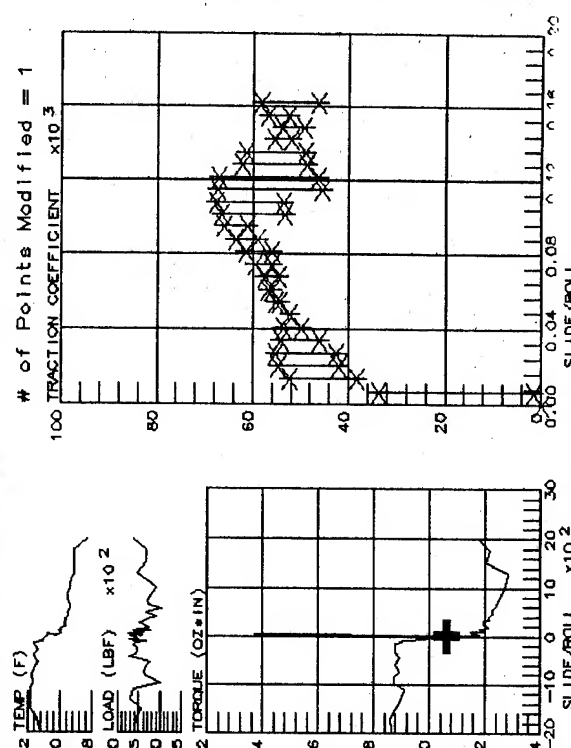
CG 66-92 Krytox 143 az FILE: cg200h #74



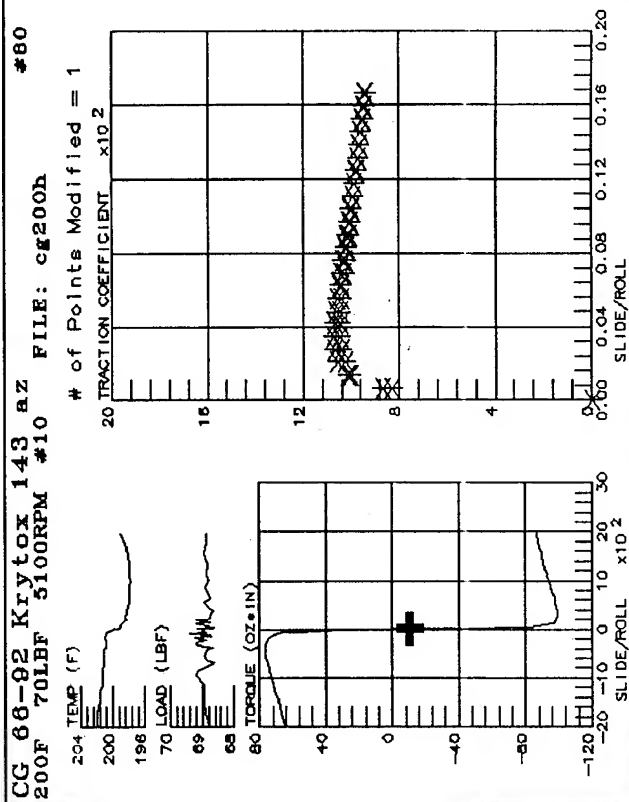
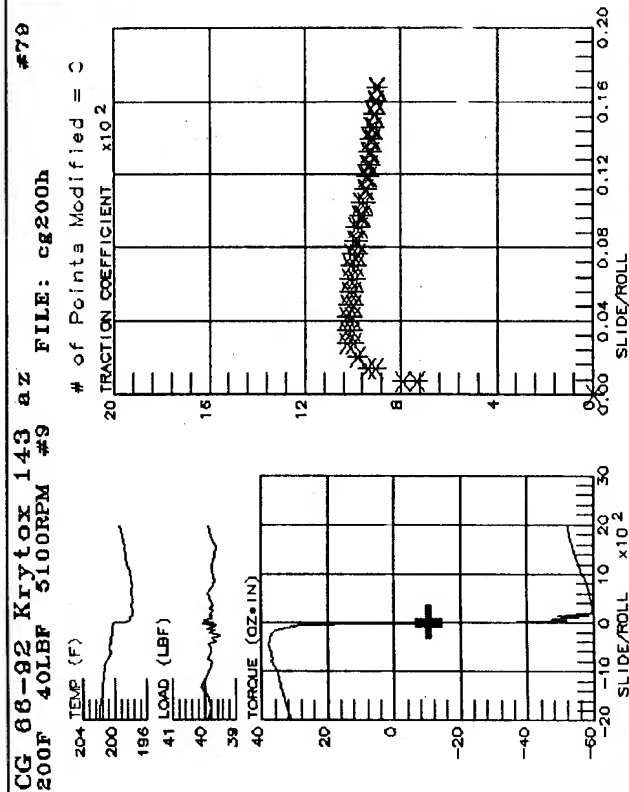
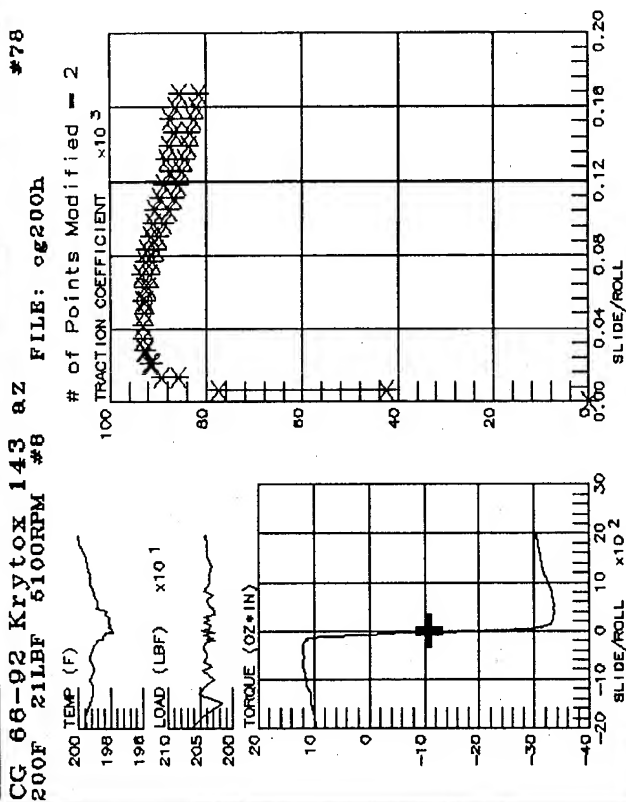
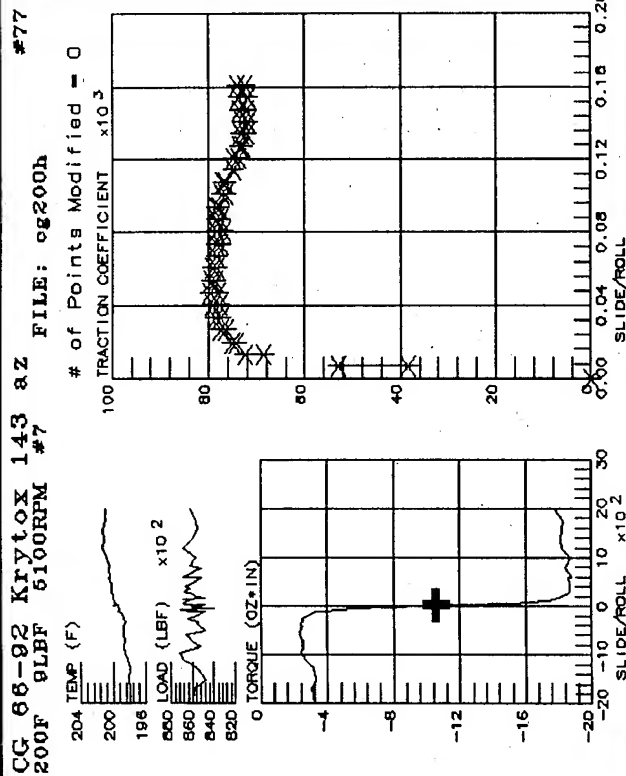
CG 66-92 Krytox 143 az FILE: cg200h #75



CG 66-92 Krytox 143 az FILE: cg200h #76

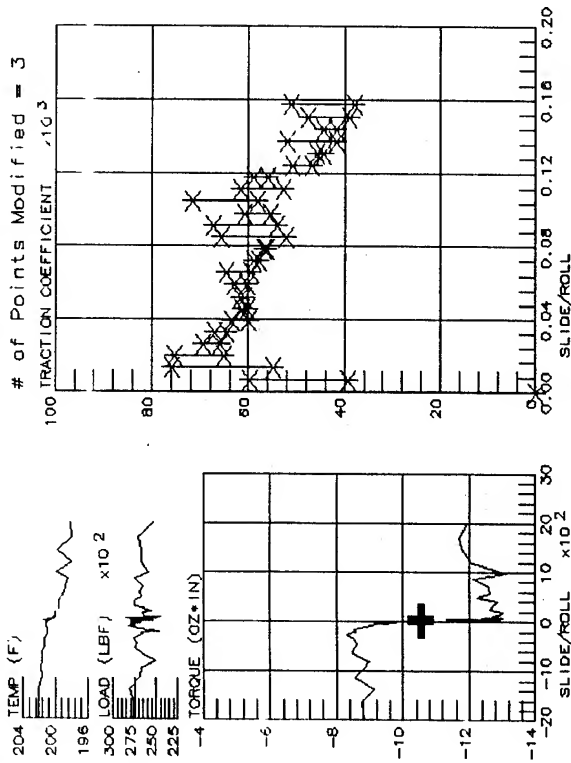


TRACION DATA

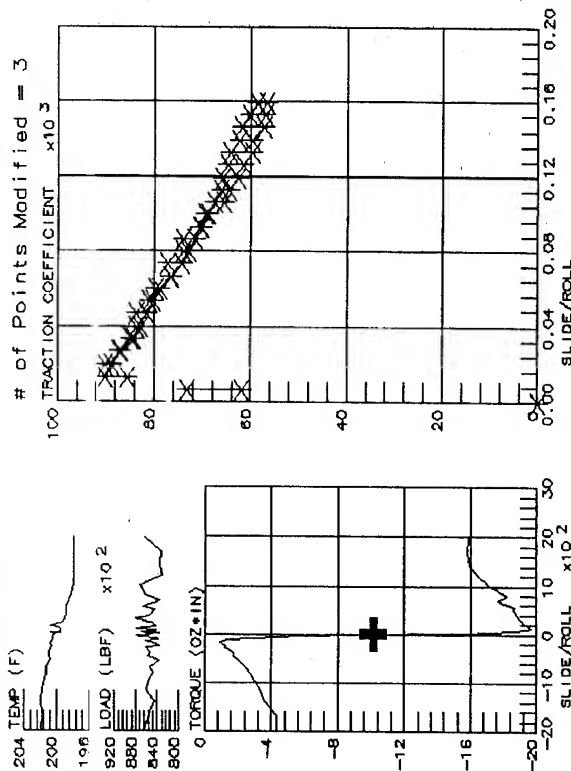


TRACTION DATA

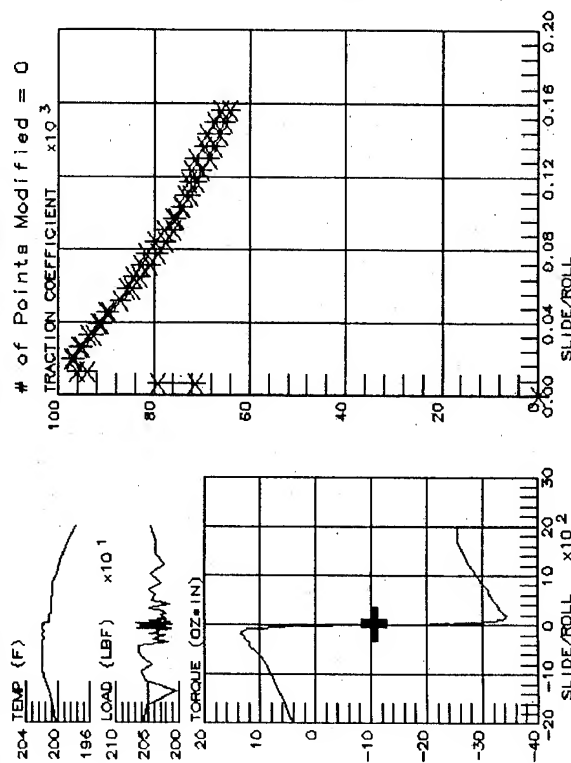
CG 66-92 Krytox 143 az #81
200F 3LBF 10150RPM #11 FILE: cg200h



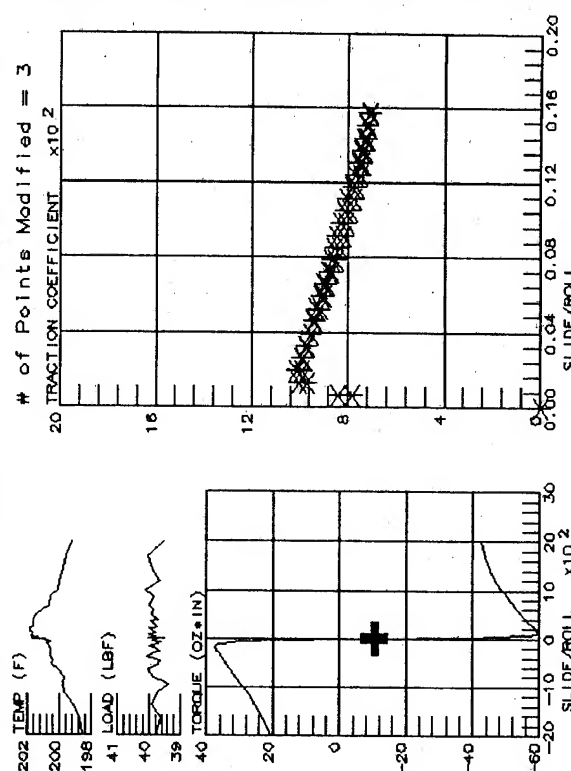
CG 66-92 Krytox 143 az #82
200F 9LBF 10150RPM #12 FILE: cg200h



CG 66-92 Krytox 143 az #83
200F 21LBF 10150RPM #13 FILE: cg200h



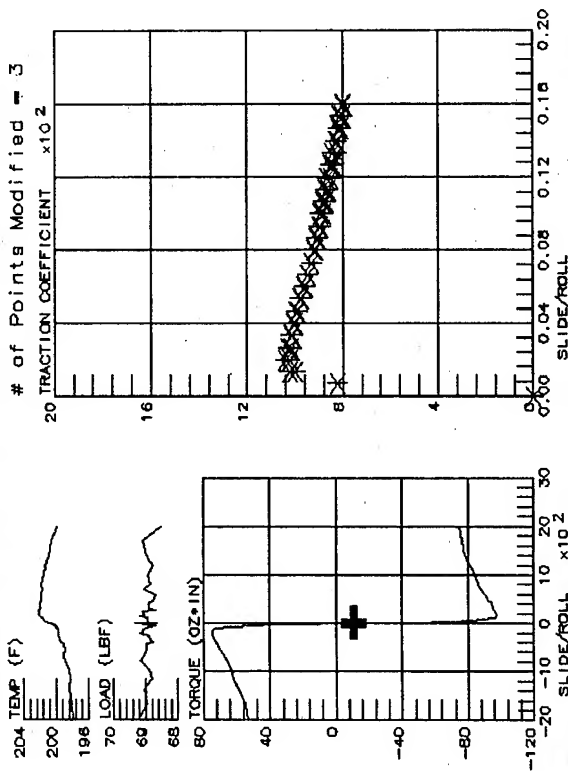
CG 66-92 Krytox 143 az #84
200F 40LBF 10150RPM #14 FILE: cg200h



TRACTION DATA

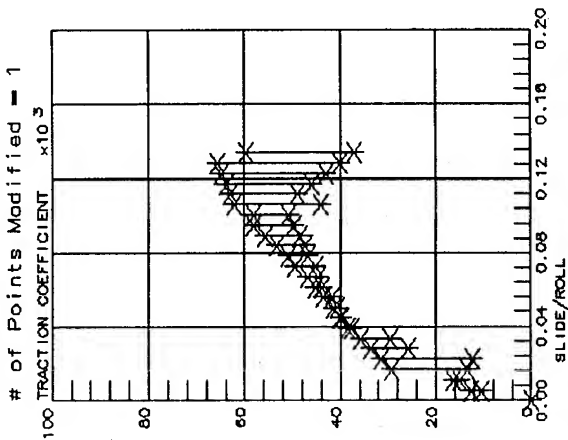
CG 66-92 Krytox 143 az FILE: cg200h
200F 70LBF 10160RPM #15

#85



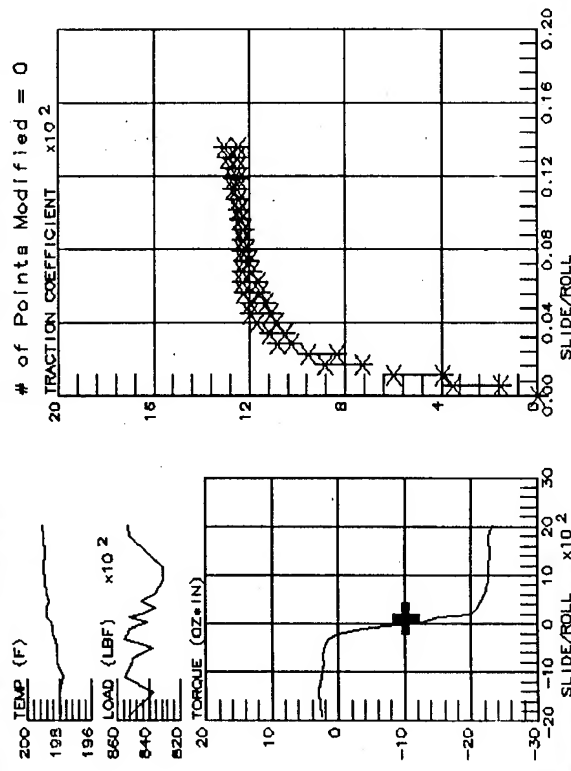
CG 66-92 Krytox 143 az FILE: cg200m
200F 3LBF 152RPM #1

#86



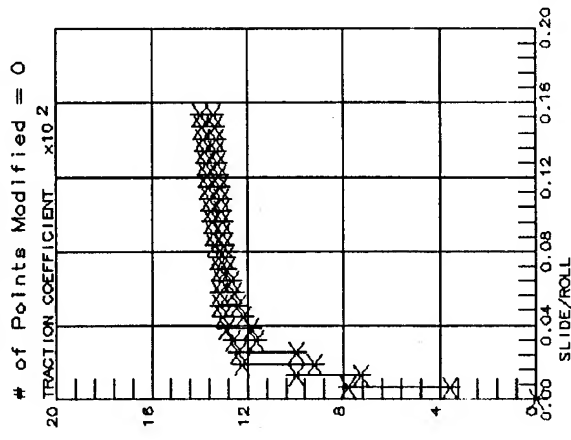
CG 66-92 Krytox 143 az FILE: cg200m
200F 9LBF 152RPM #2

#87



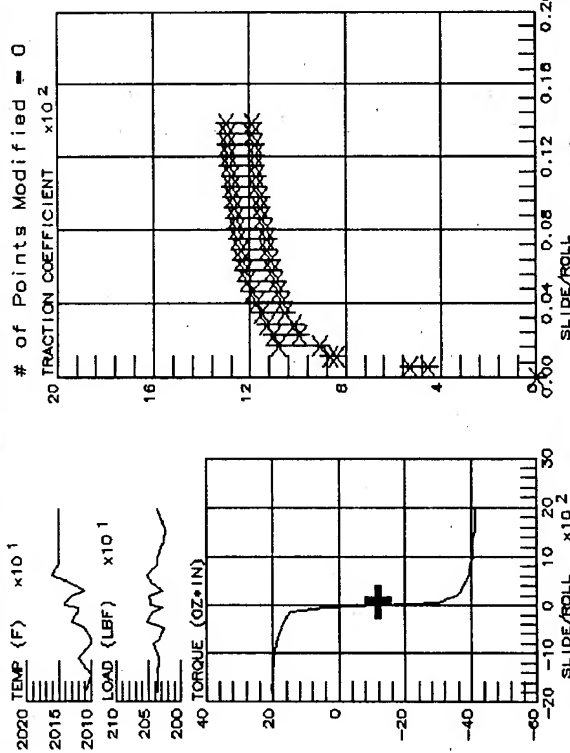
CG 66-92 Krytox 143 az FILE: cg200m
200F 21LBF 152RPM #3

#88

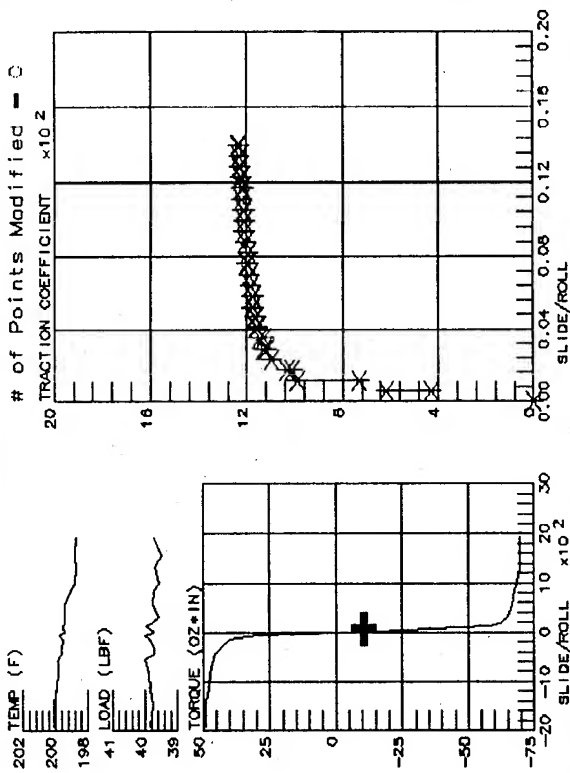


TRACTION DATA

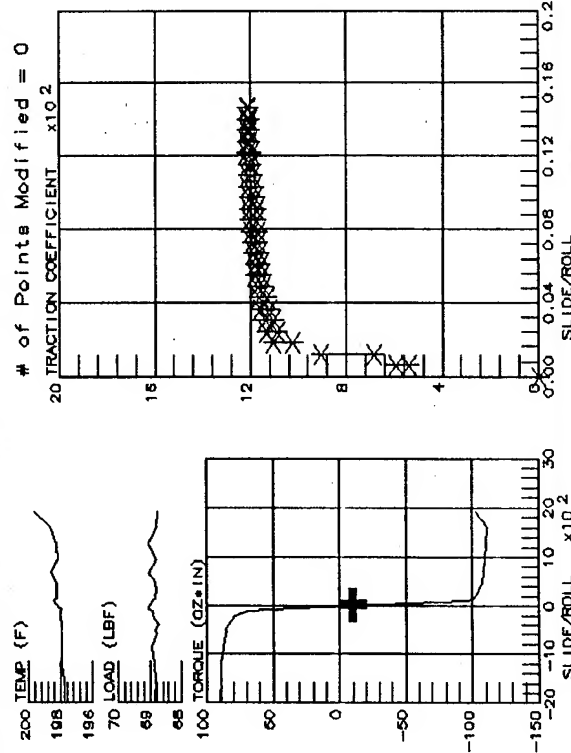
CG 66-92 Krytox 143 az FILE: cg200m
200F 21LBF 310RPM #8



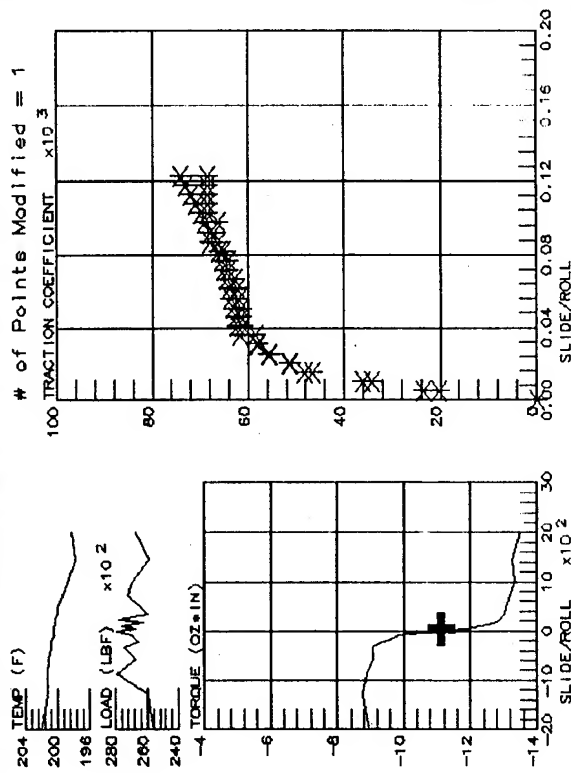
CG 66-92 Krytox 143 az FILE: cg200m
200F 40LBF 310RPM #9



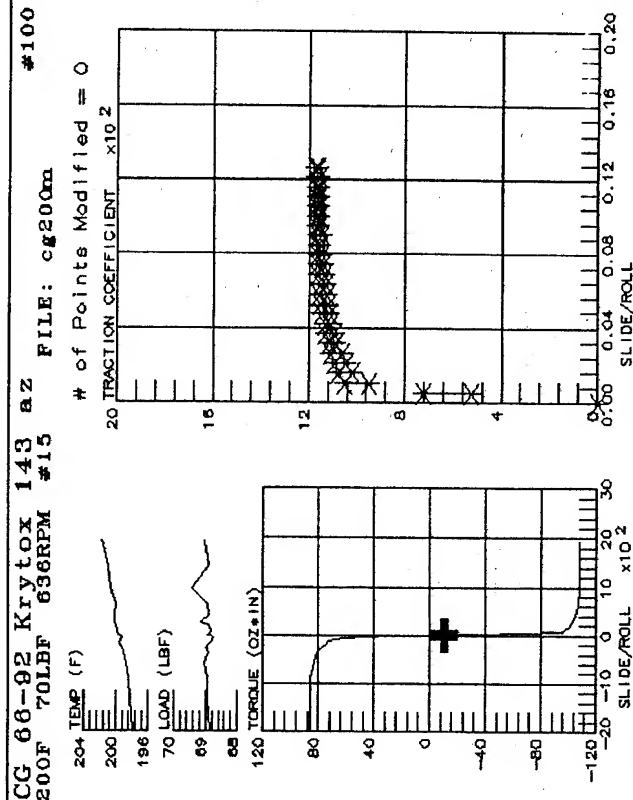
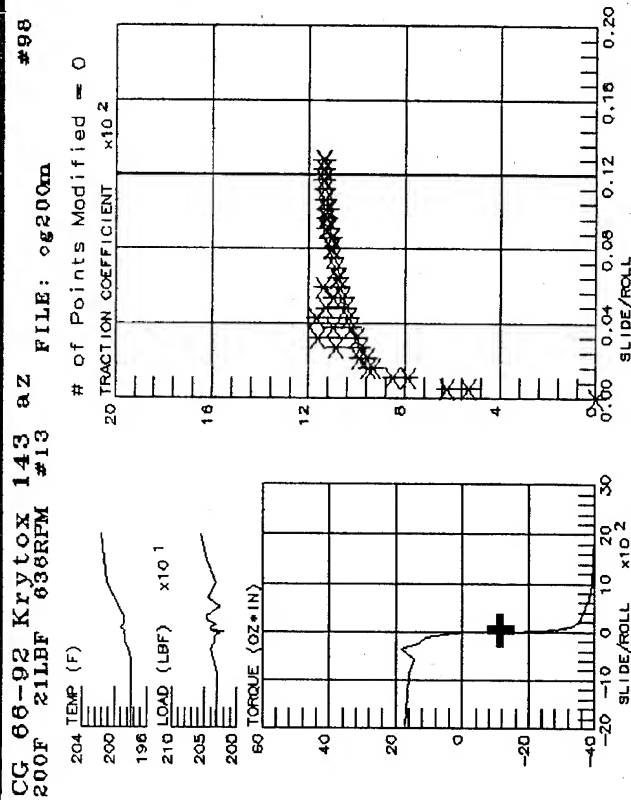
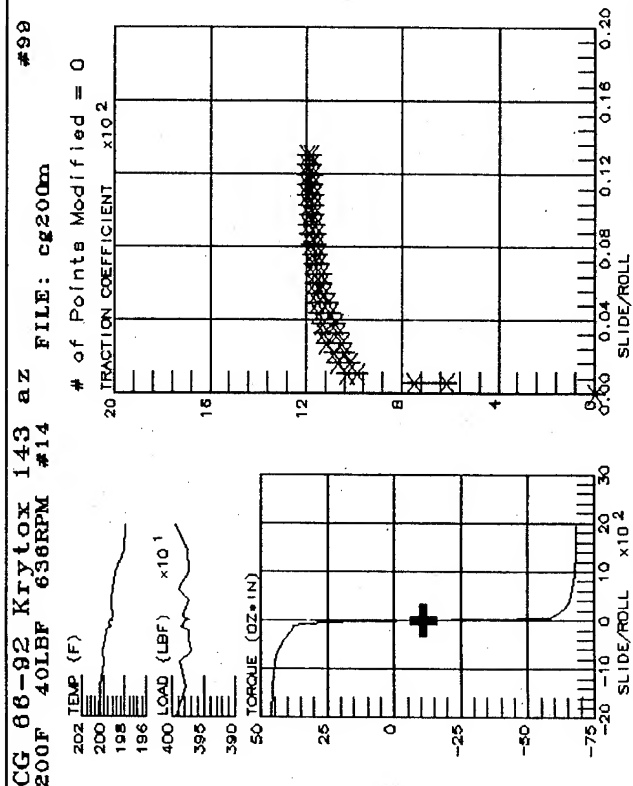
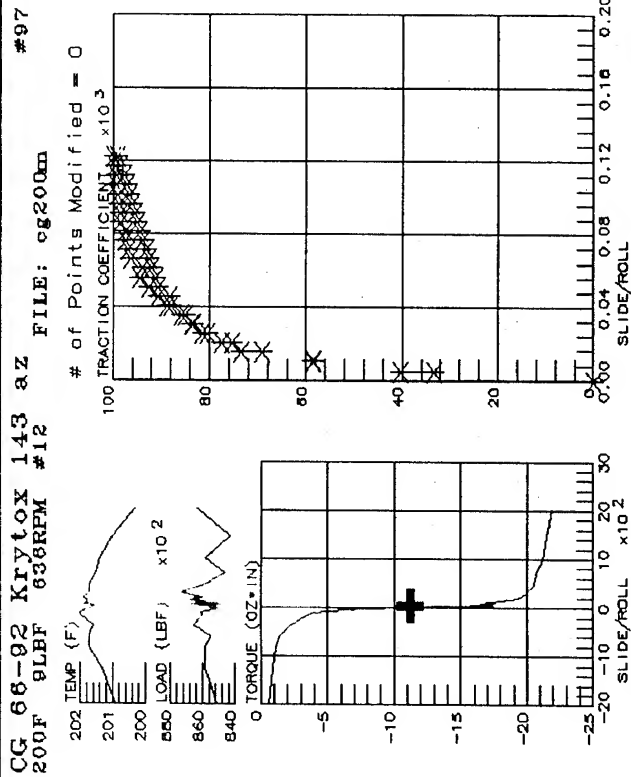
CG 66-92 Krytox 143 az FILE: cg200m
200F 70LBF 310RPM #10



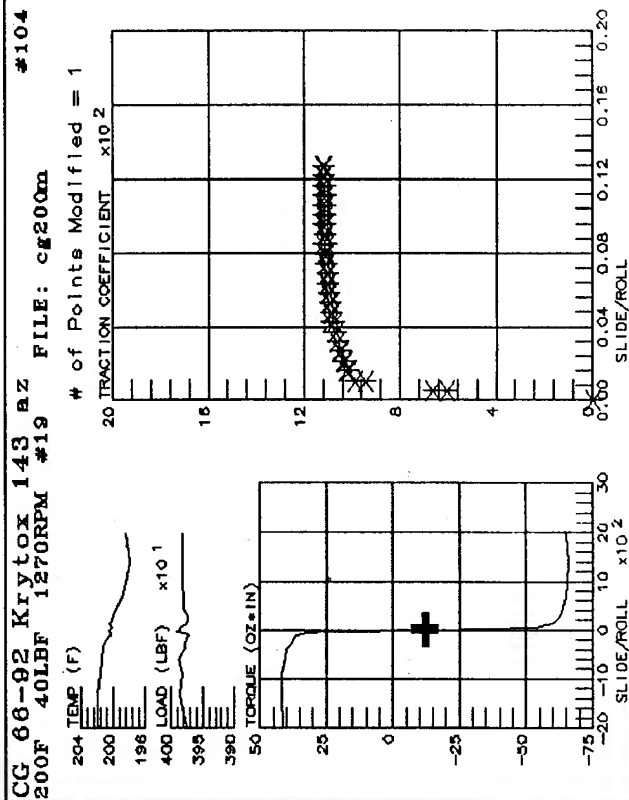
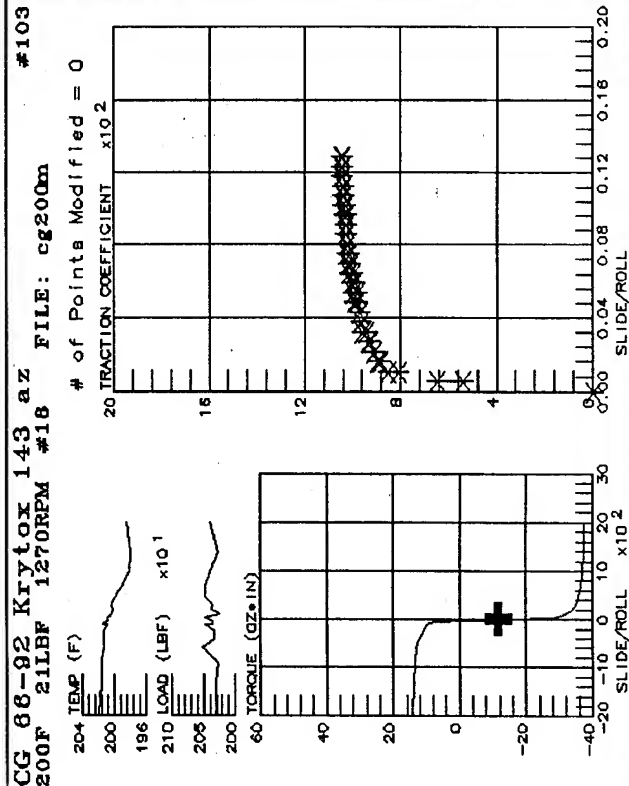
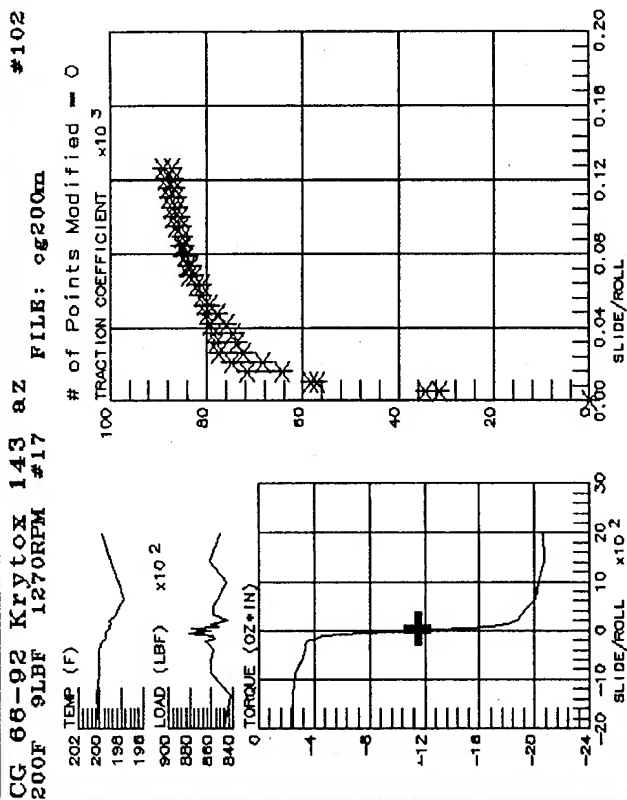
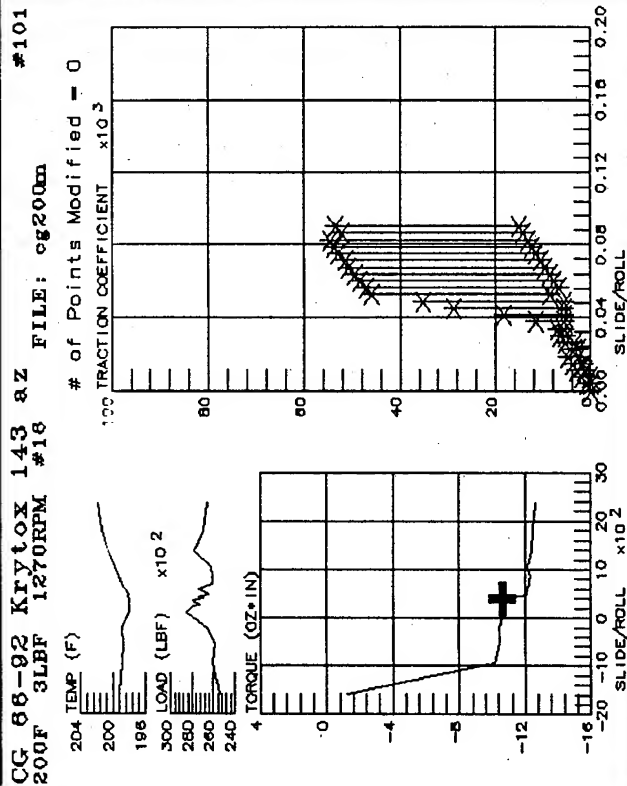
CG 66-92 Krytox 143 az FILE: cg200m
200F 31LBF 636RPM #11



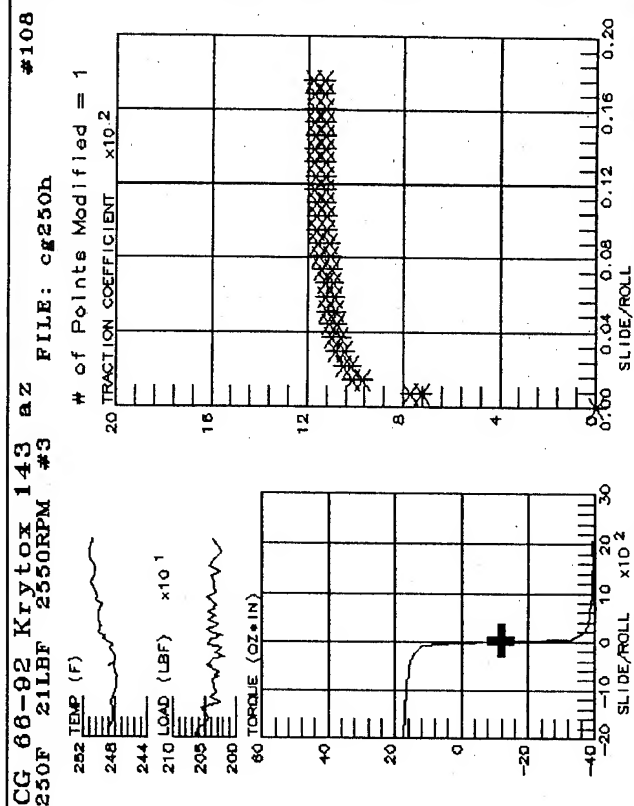
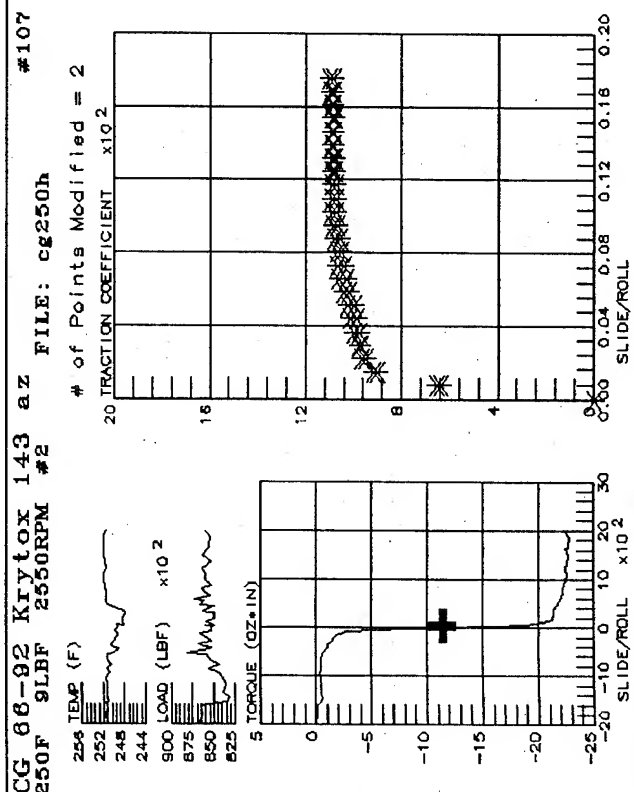
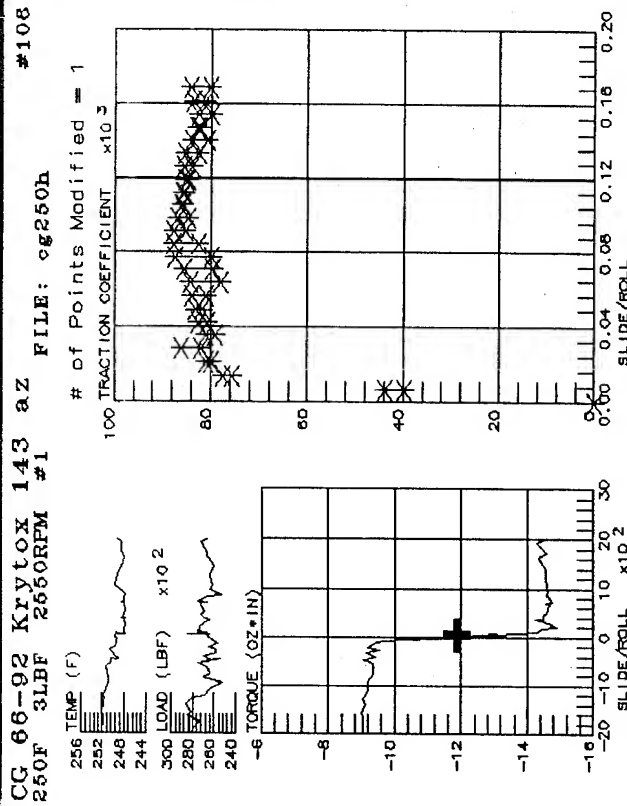
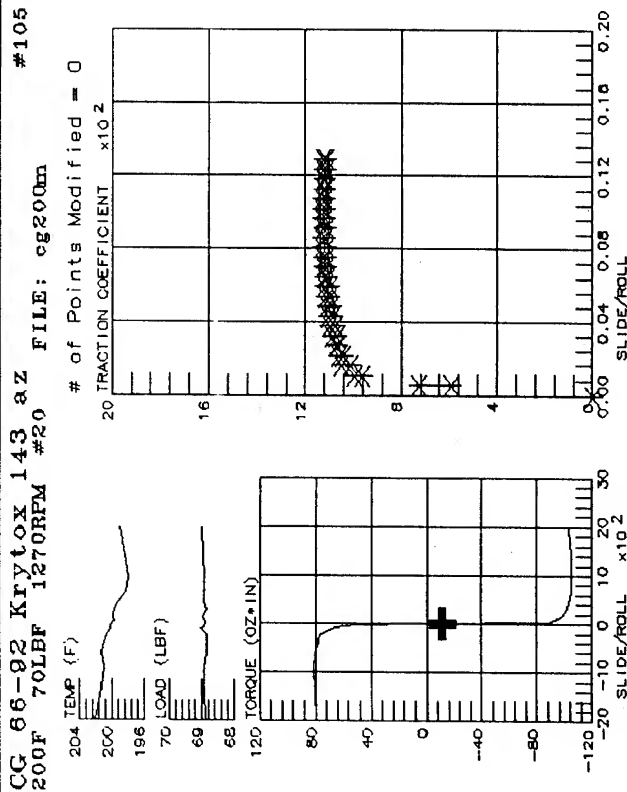
TRACTION DATA



TRACTION DATA

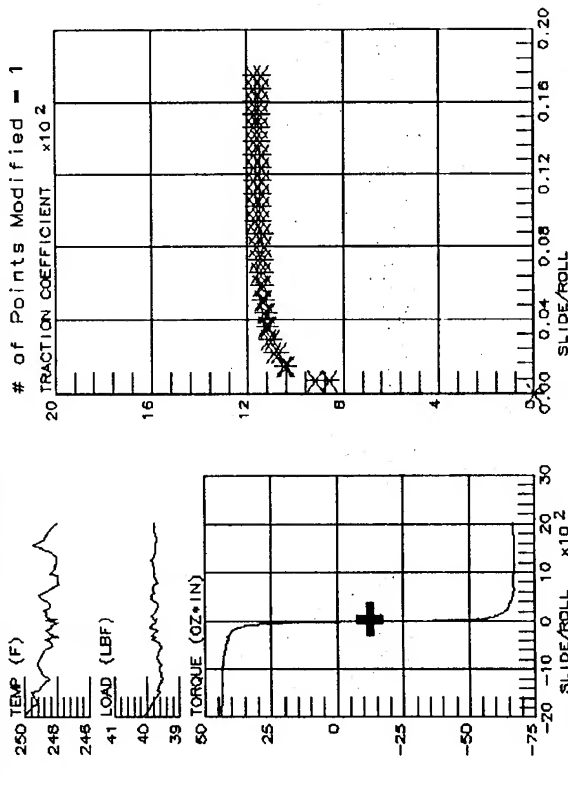


TRACTION DATA

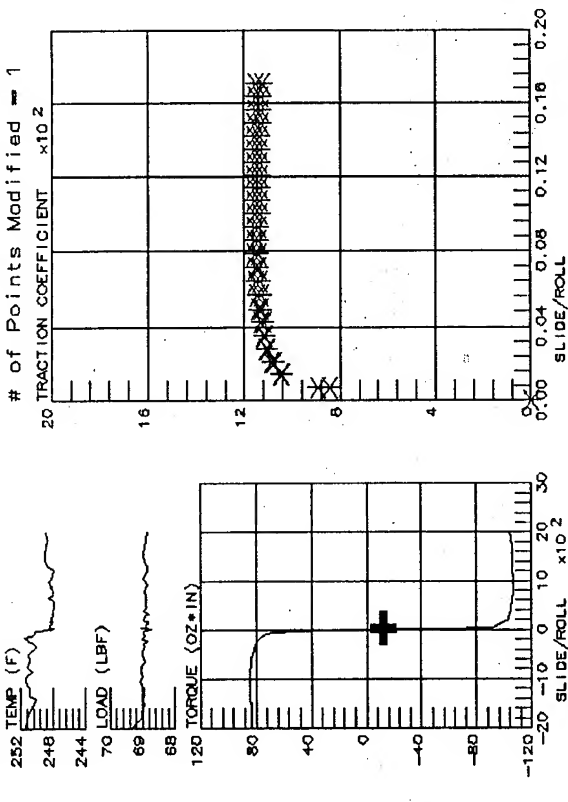


TRACTION DATA

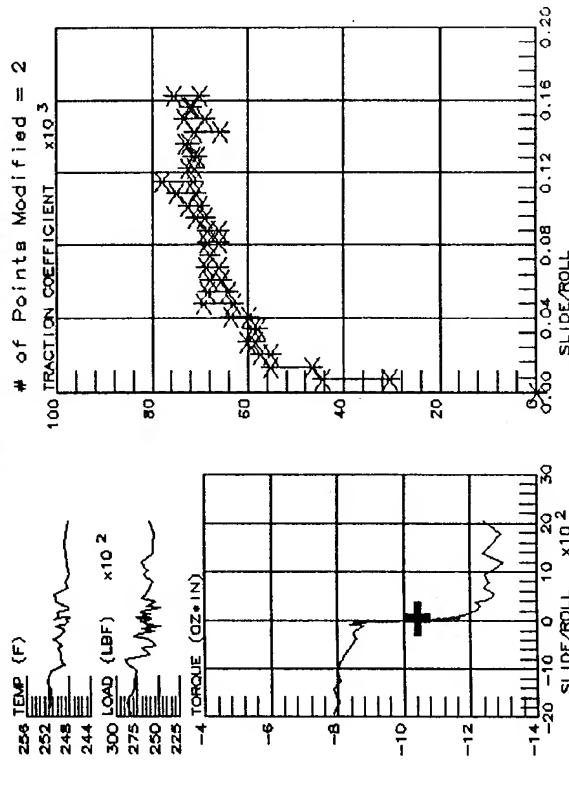
CG 66-92 Krytox 143 az FILE: cg250h
250F 40LBF 2560RPM #4



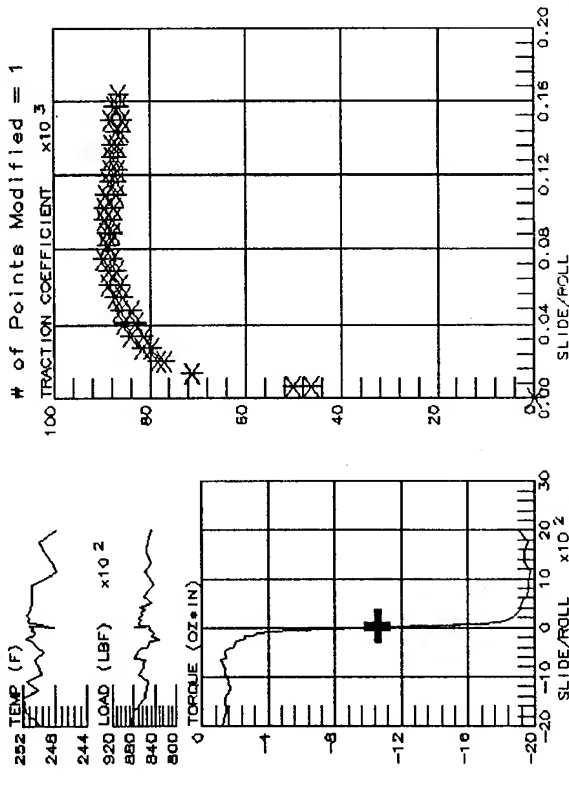
CG 66-92 Krytox 143 az FILE: cg250h
250F 70LBF 2560RPM #5



CG 66-92 Krytox 143 az FILE: cg250h
250F 30LBF 5100RPM #6



CG 66-92 Krytox 143 az FILE: cg250h
250F 9LBF 5100RPM #7



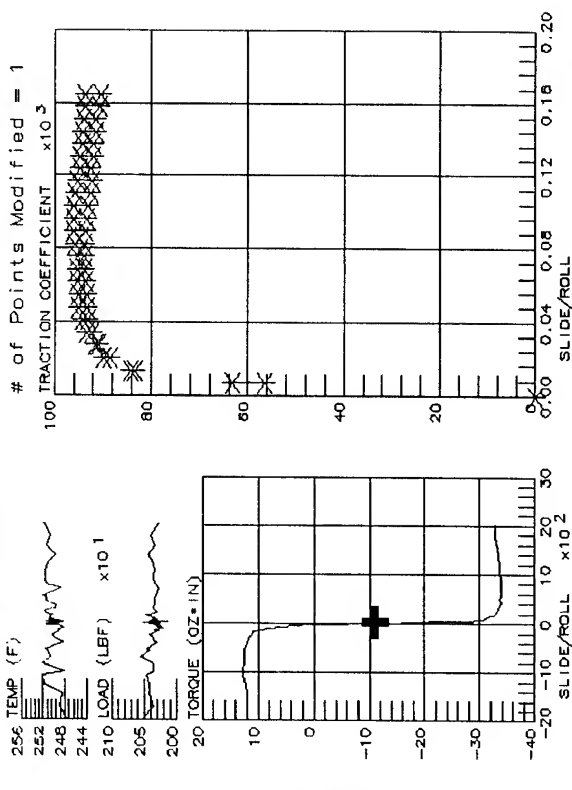
TRACTION DATA

CG 66-92 Krytox 143 az
250F 21LBF 5100RPM #8

#113

FILE: cg250h

of Points Modified = 1

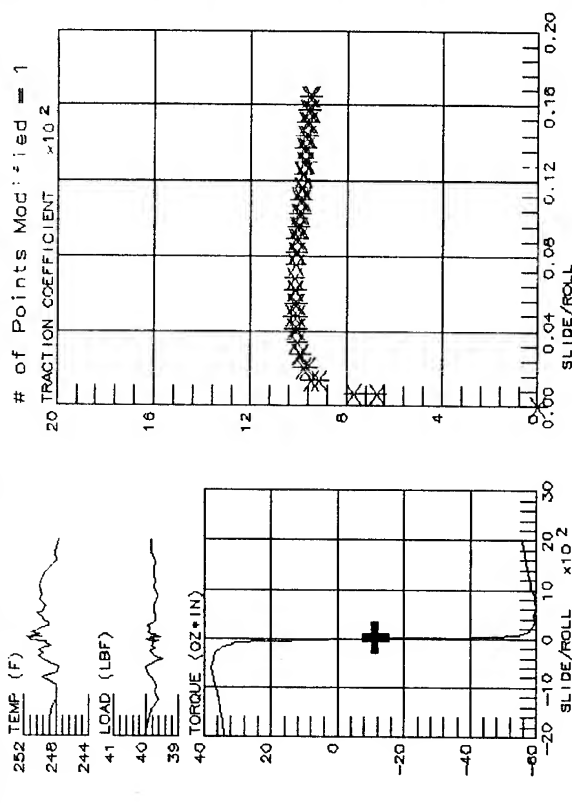


CG 66-92 Krytox 143 az
250F 40LBF 5100RPM #9

#114

FILE: cg250h

of Points Modified = 1

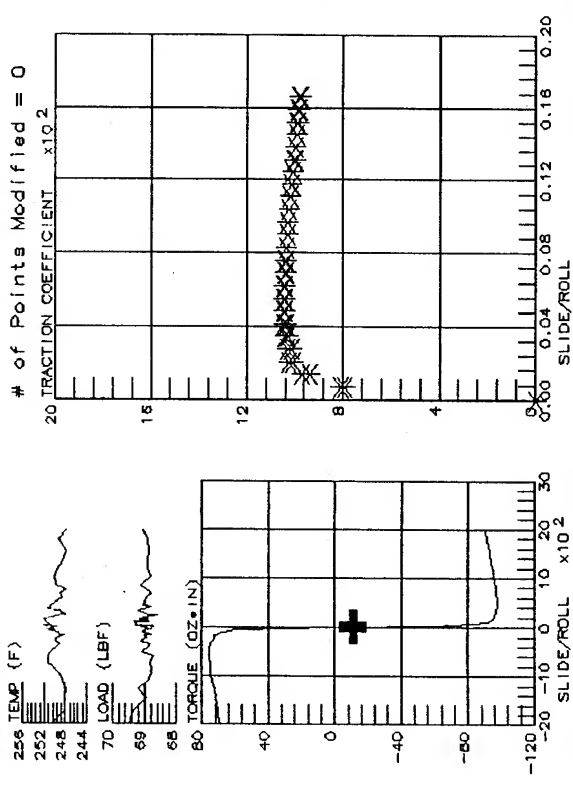


CG 66-92 Krytox 143 az
250F 70LBF 5100RPM #10

#115

FILE: cg250h

of Points Modified = 0

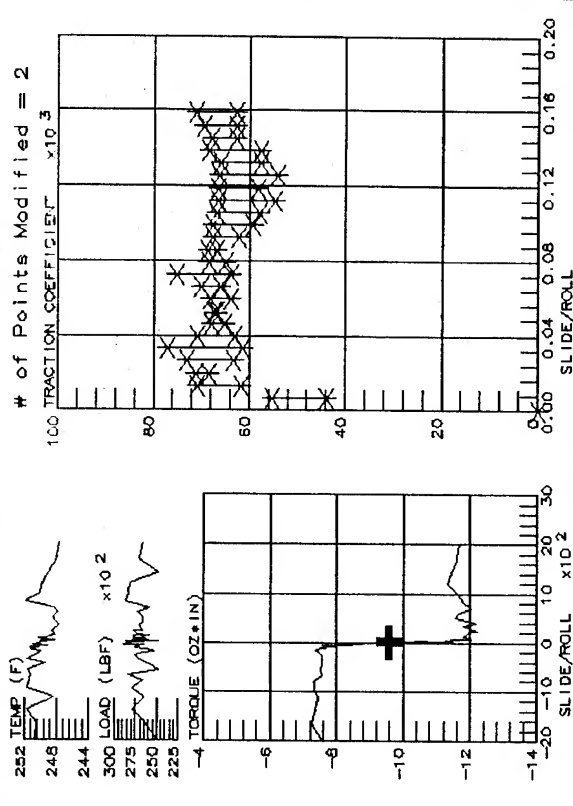


CG 66-92 Krytox 143 az
250F 3LBF 10150RPM #11

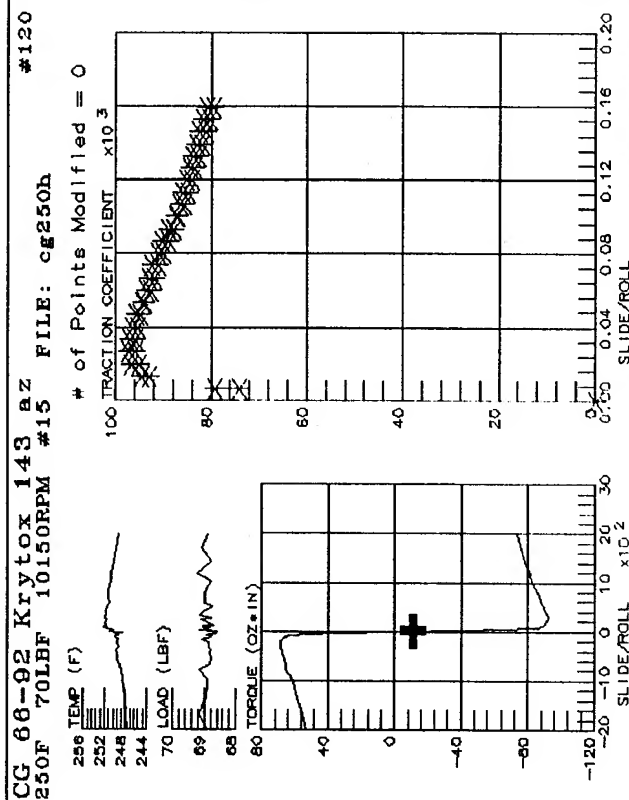
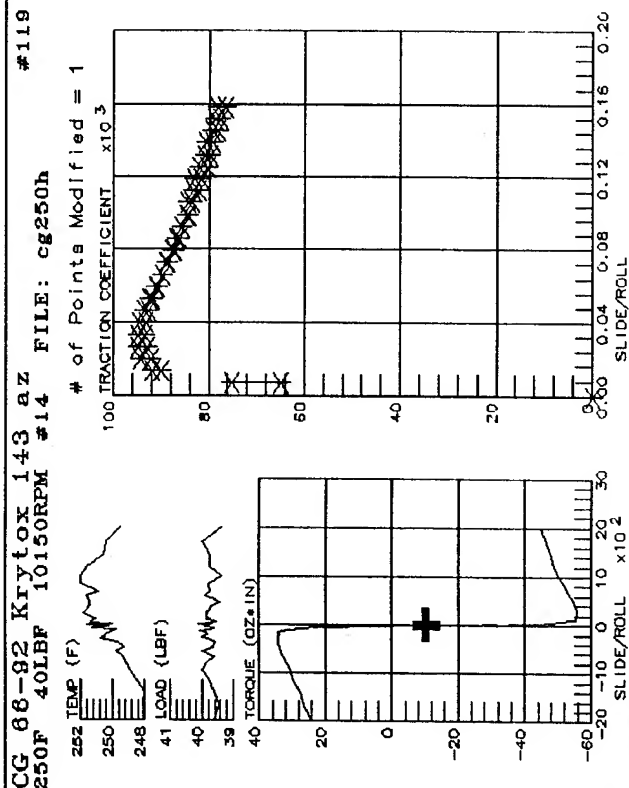
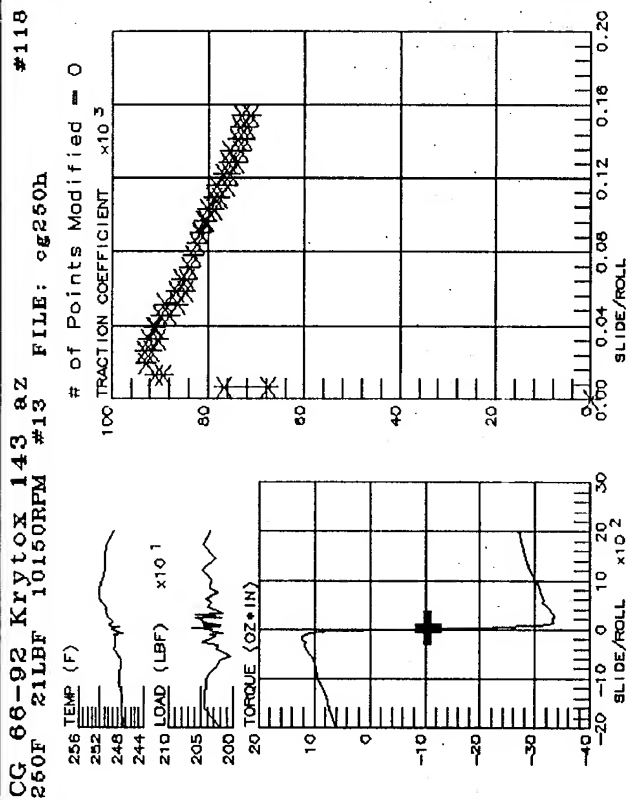
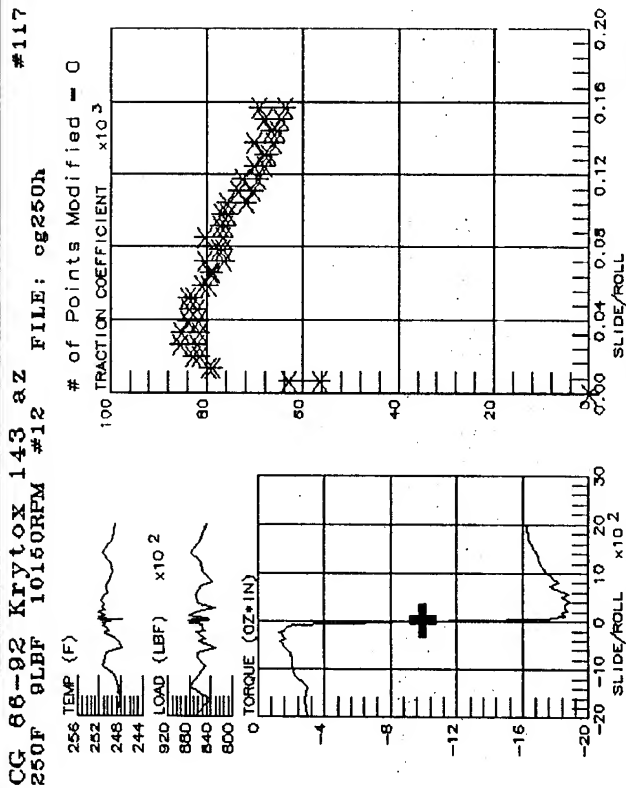
#116

FILE: cg250h

of Points Modified = 2



TRACTION DATA



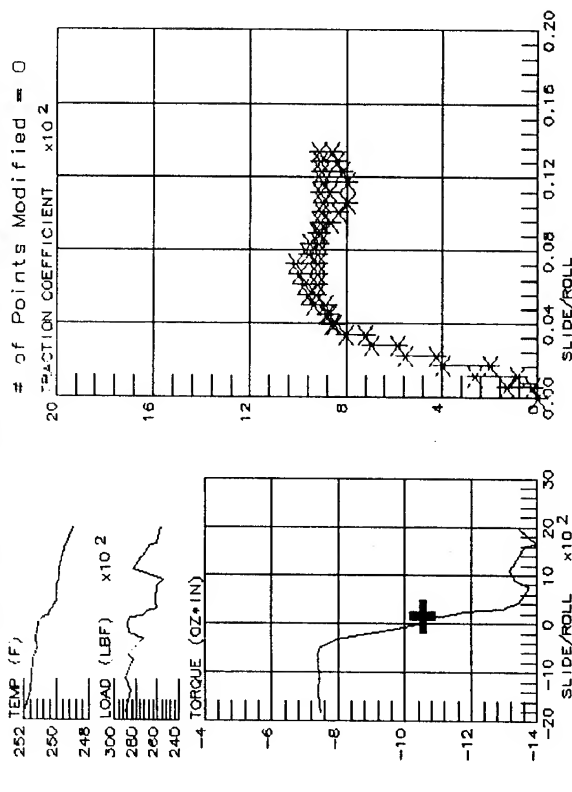
TRACTION DATA

CG 66-92 Krytox 143 az
250F 3LBF 152RPM #1

#121

FILE: cg250m

of Points Modified = 0

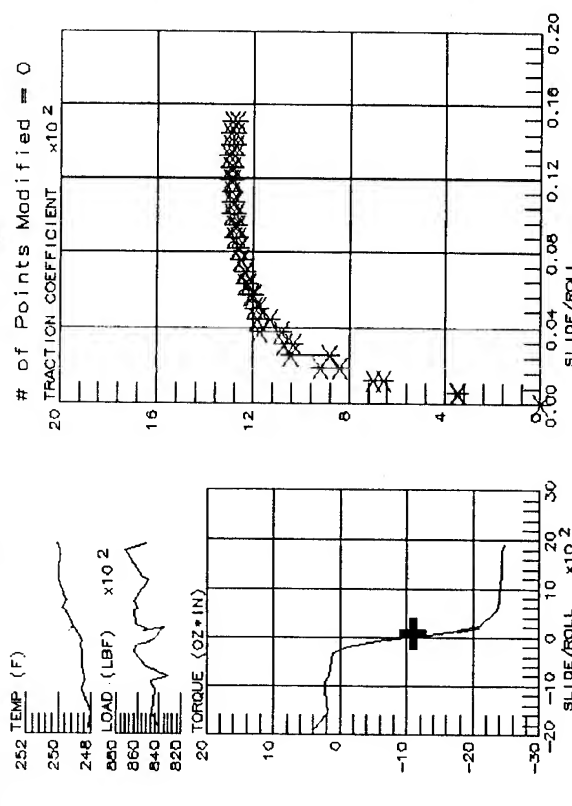


CG 66-92 Krytox 143 az
250F 9LBF 152RPM #2

#122

FILE: cg250m

of Points Modified = 0

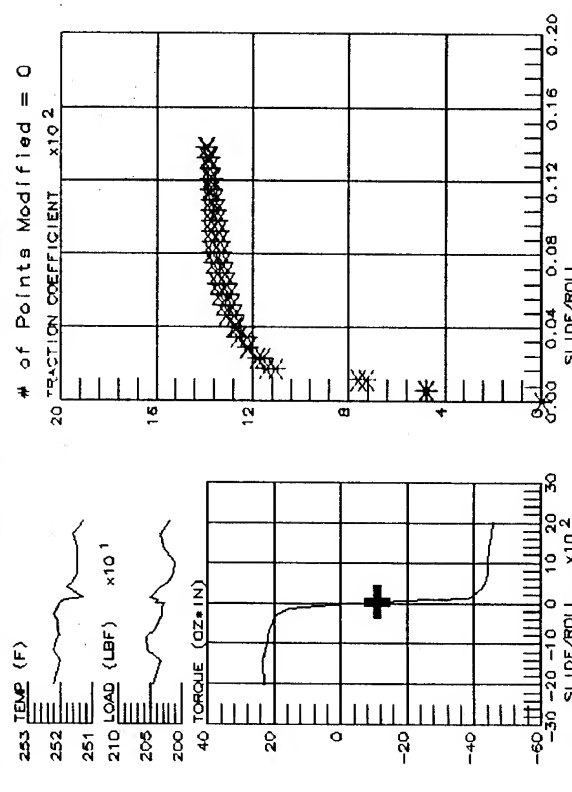


CG 66-92 Krytox 143 az
250F 21LBF 152RPM #3

#123

FILE: cg250m

of Points Modified = 0

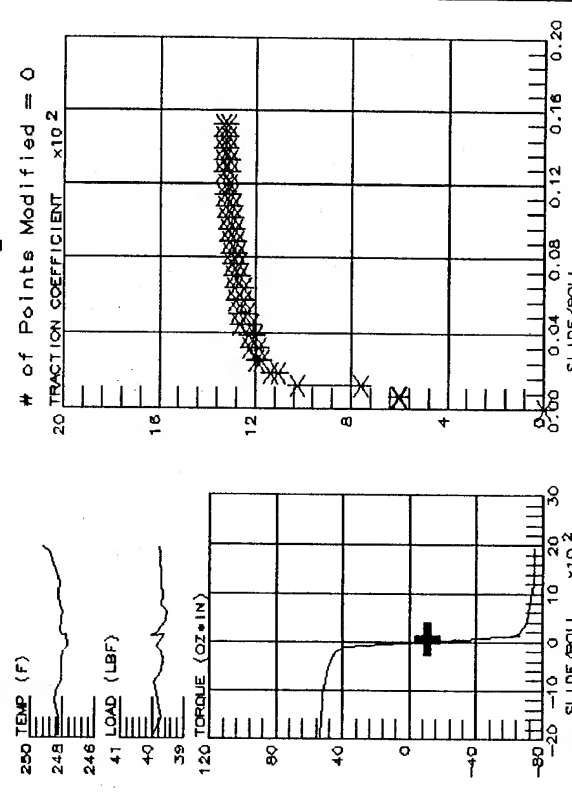


CG 66-92 Krytox 143 az
250F 40LBF 152RPM #4

#124

FILE: cg250m

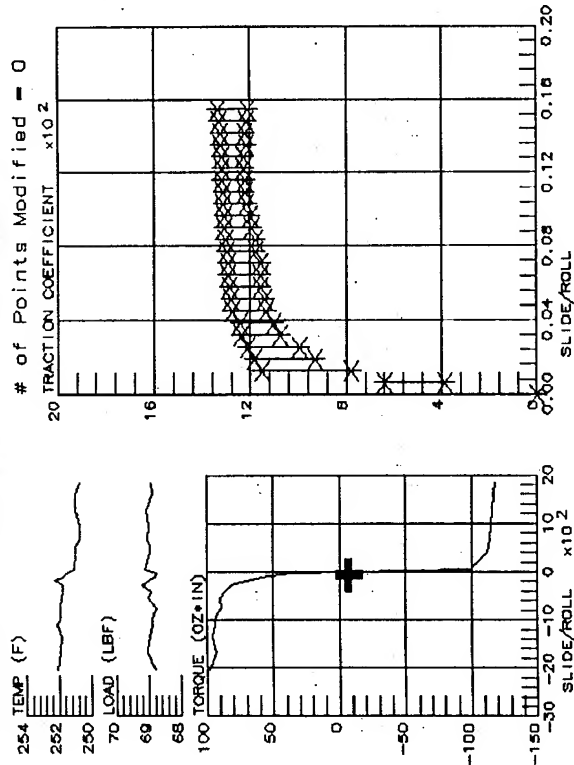
of Points Modified = 0



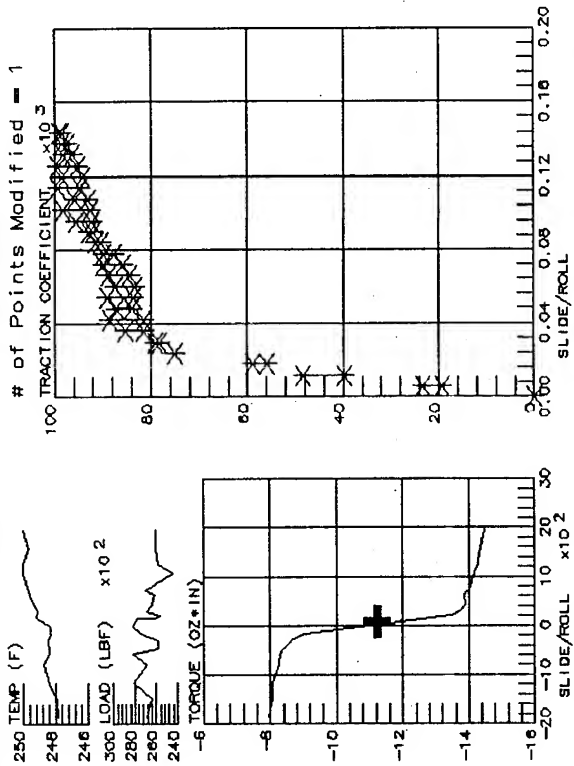
CG 68-92 Krytox 143 az
2250F 70LBF 152RPM #5 FILE: cg250m #125

CG 68-92 Krytox 143 az
250F 3LBF 310RPM #8 FILE: 06250m #126

of Points Modified - 0



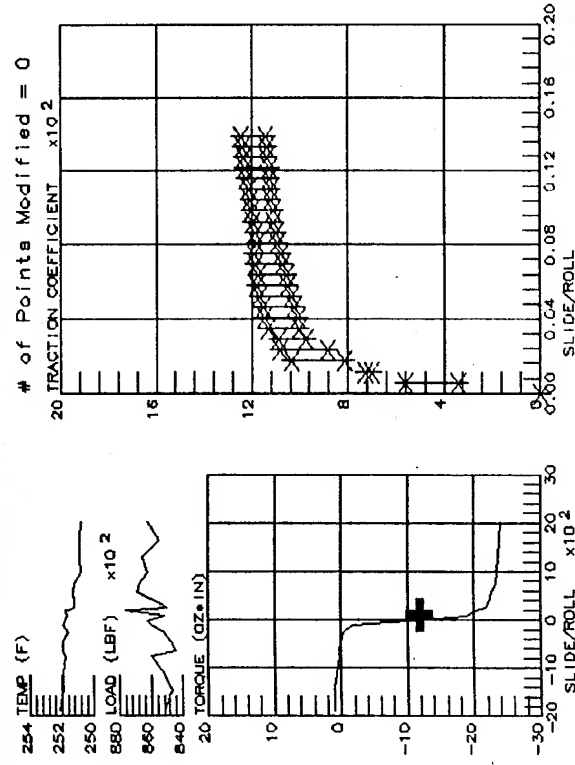
of Points Modified = 1



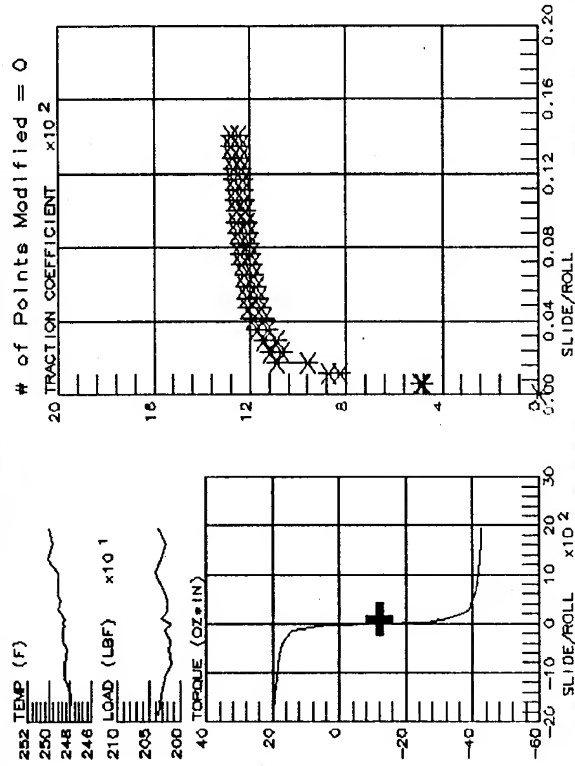
CG 68-92 Krytox 143 az
250F 9LBF 310RPM #7 FILE: cg250m
#127

CG 68-92 Krytox 143 az
250F 21LF 310RPM #8 FILE: cg250m #128

of Points Modified = 0



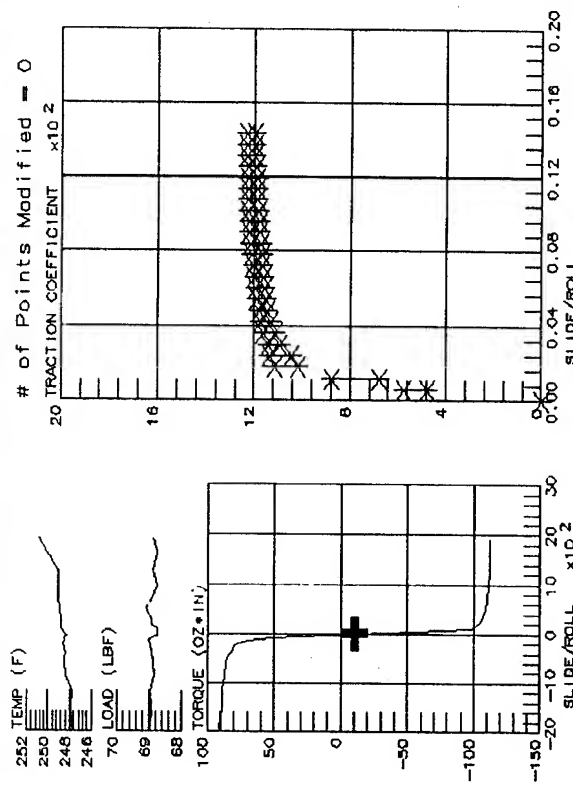
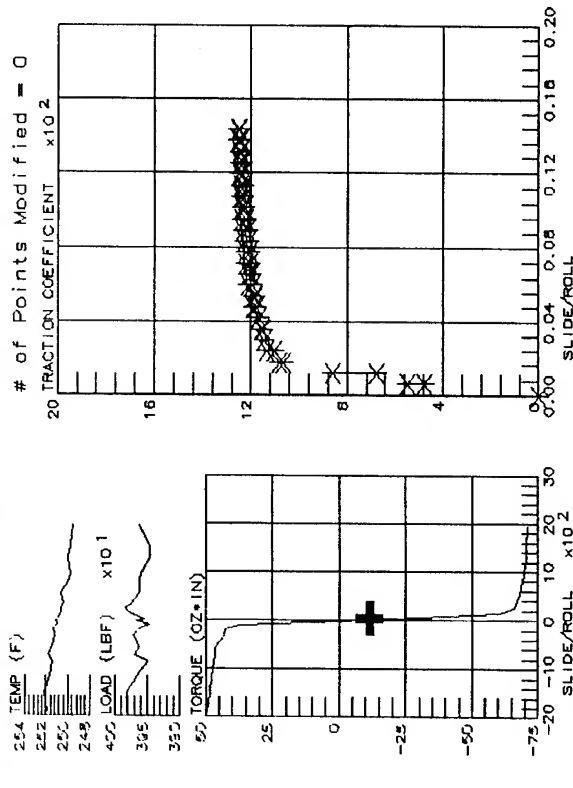
of Points Modified = 0



TRACTION DATA

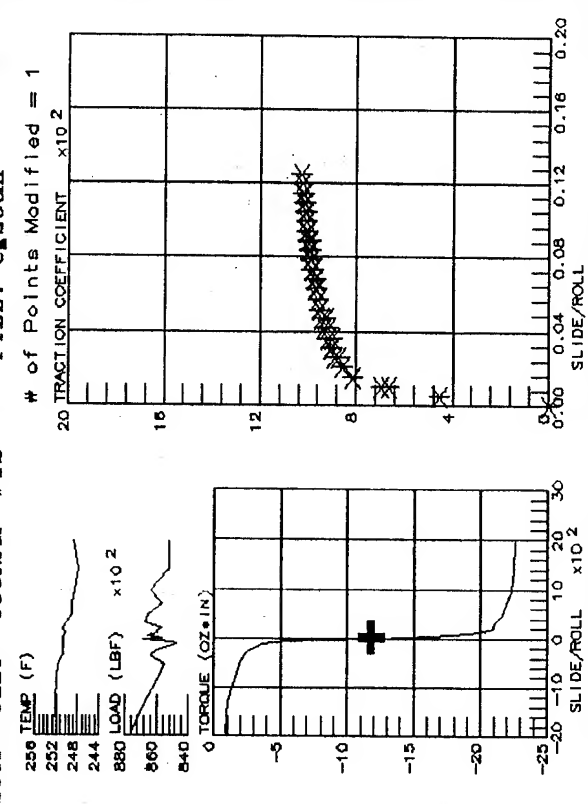
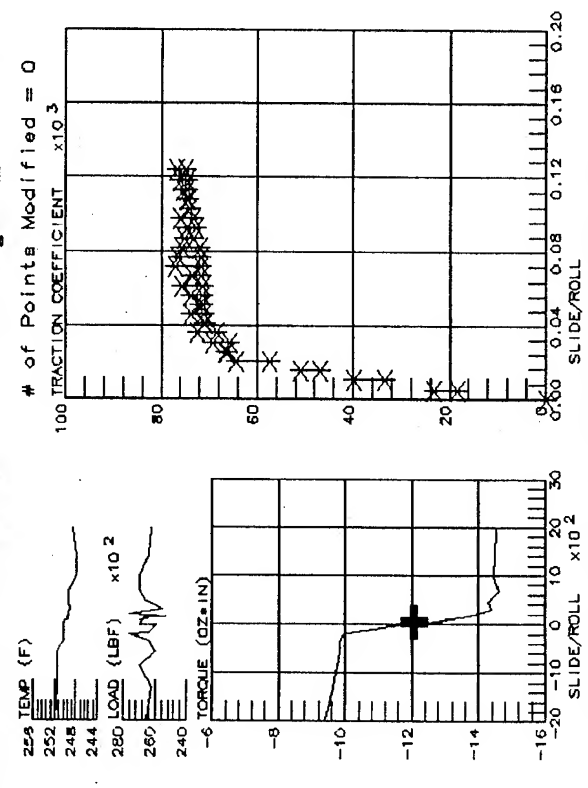
CG 66-92 Krytox 143 az #129
250F 40LBF 310RPM #9

CG 66-92 Krytox 143 az #130
250F 70LBF 310RPM #10



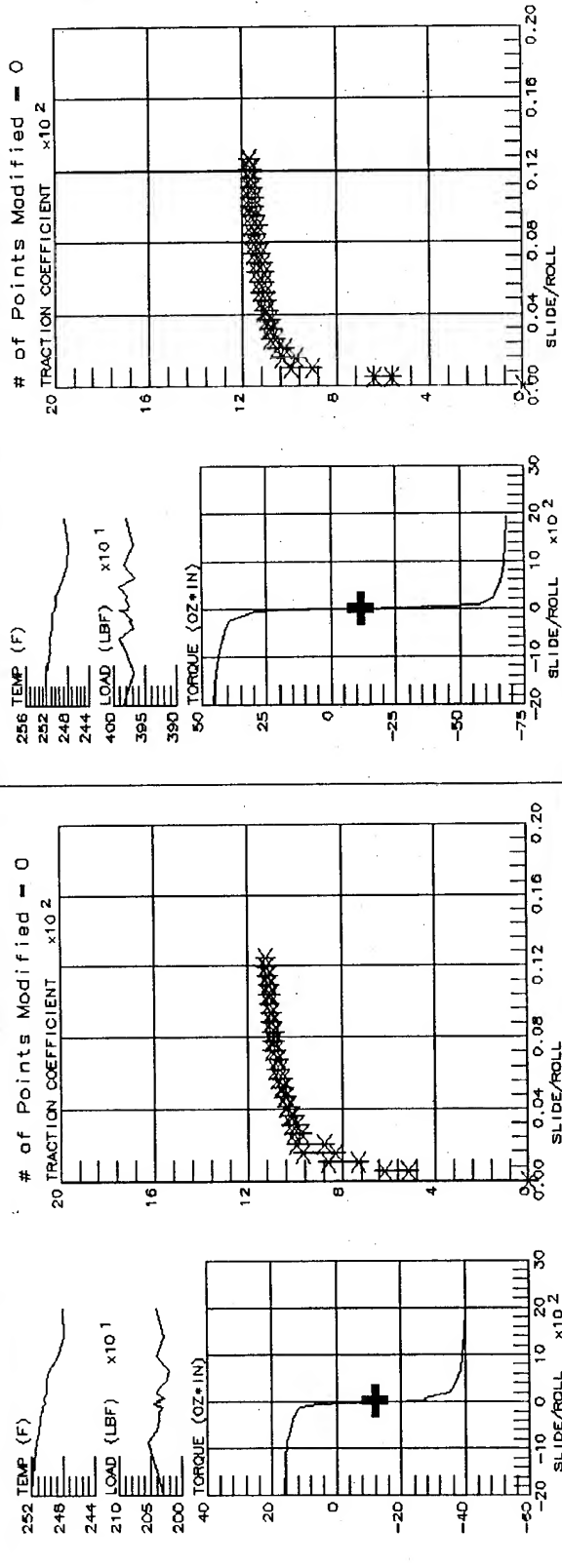
CG 66-92 Krytox 143 az #131
250F 31LBF 636RPM #11

CG 66-92 Krytox 143 az #132
250F 91LBF 636RPM #12

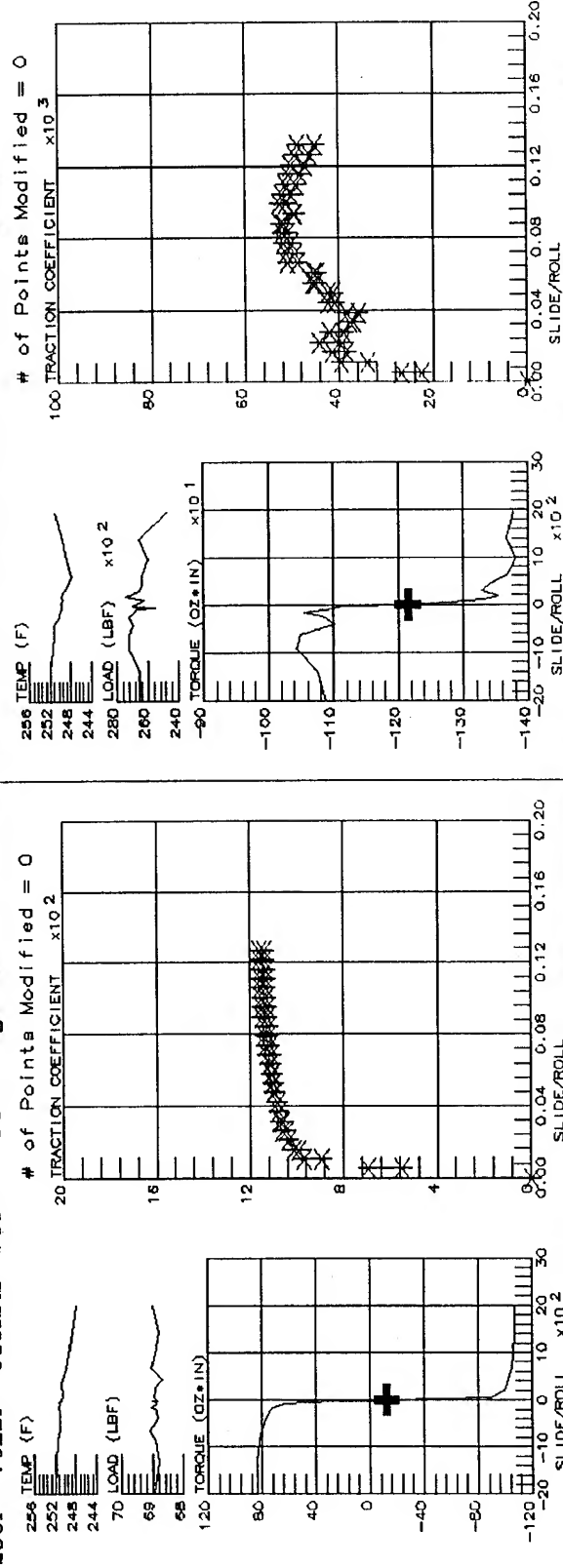


TRACTION DATA

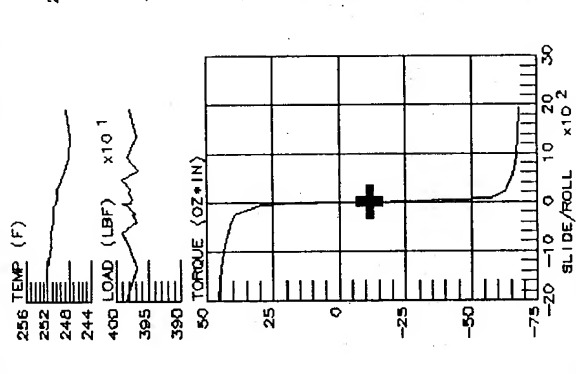
CG 66-92 Krytox 143 az FILE: cg250m #133
250F 21LBF 636RPM #13



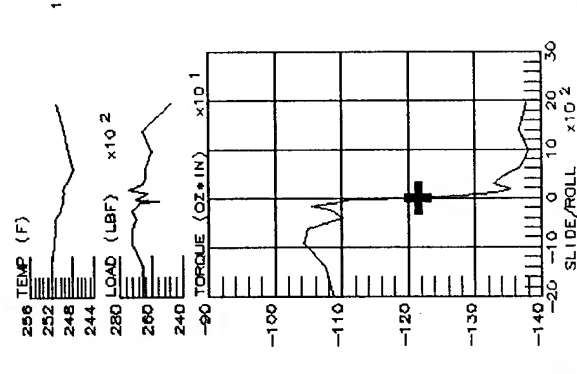
CG 66-92 Krytox 143 az FILE: cg250m #136
250F 70LBF 636RPM #15



CG 66-92 Krytox 143 az FILE: cg250m #134
250F 40LBF 636RPM #14

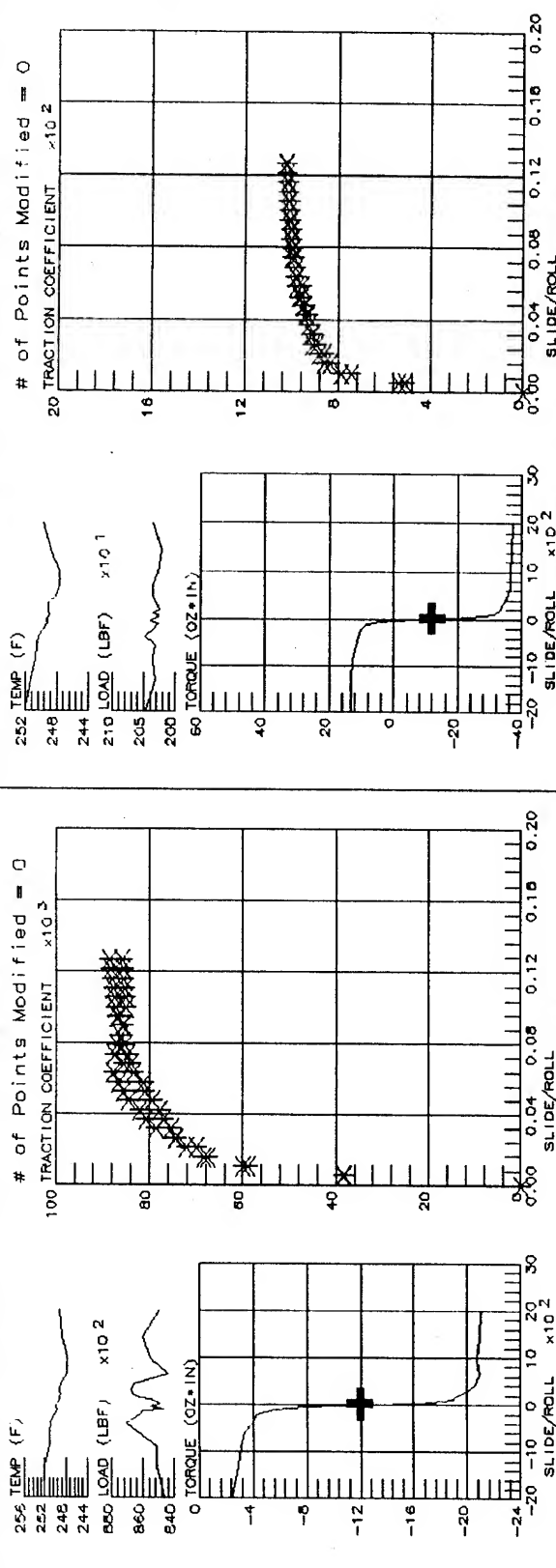


CG 66-92 Krytox 143 az FILE: cg250m #136
250F 3LBF 1270RPM #16

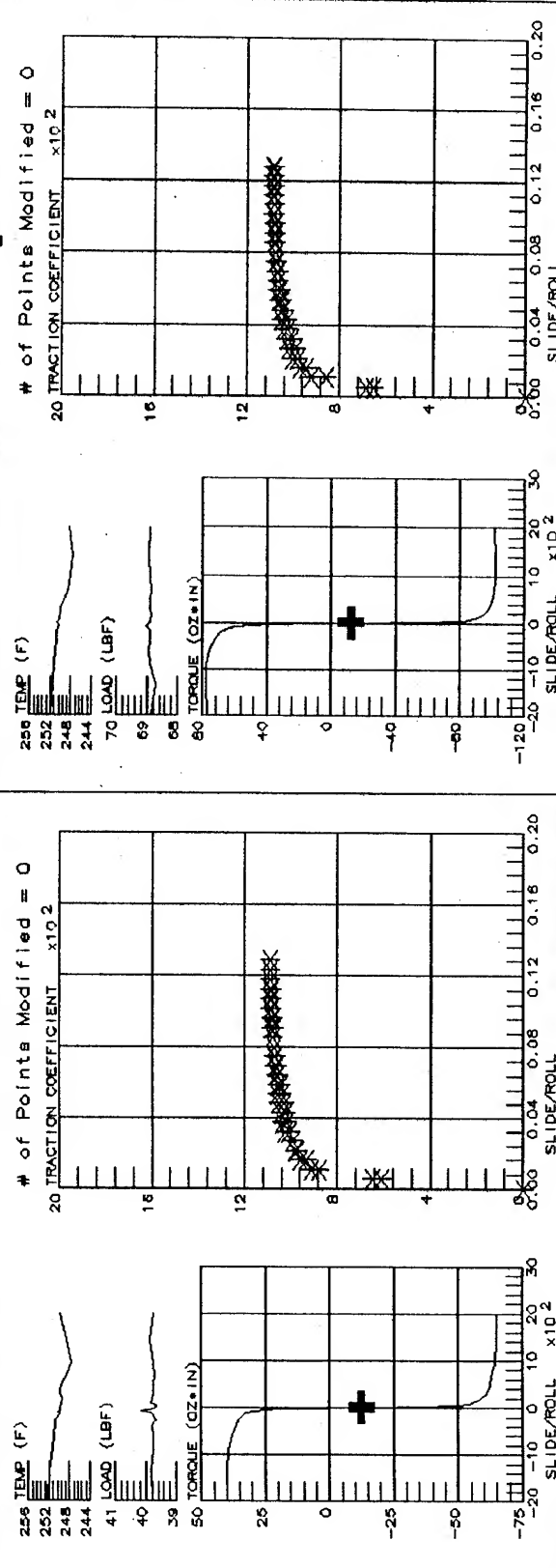


TRACTION DATA

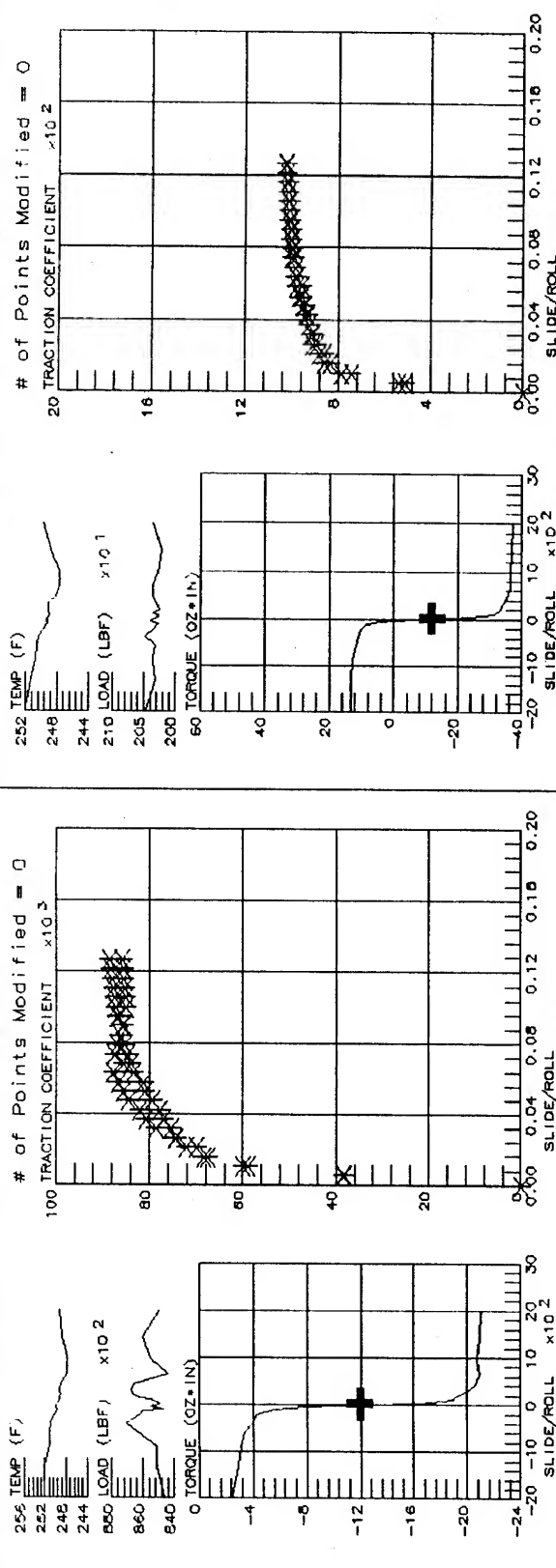
CG 66-92 Krytox 143 az #137 FILE: cg250m
250F 9LBF 1270RPM #17



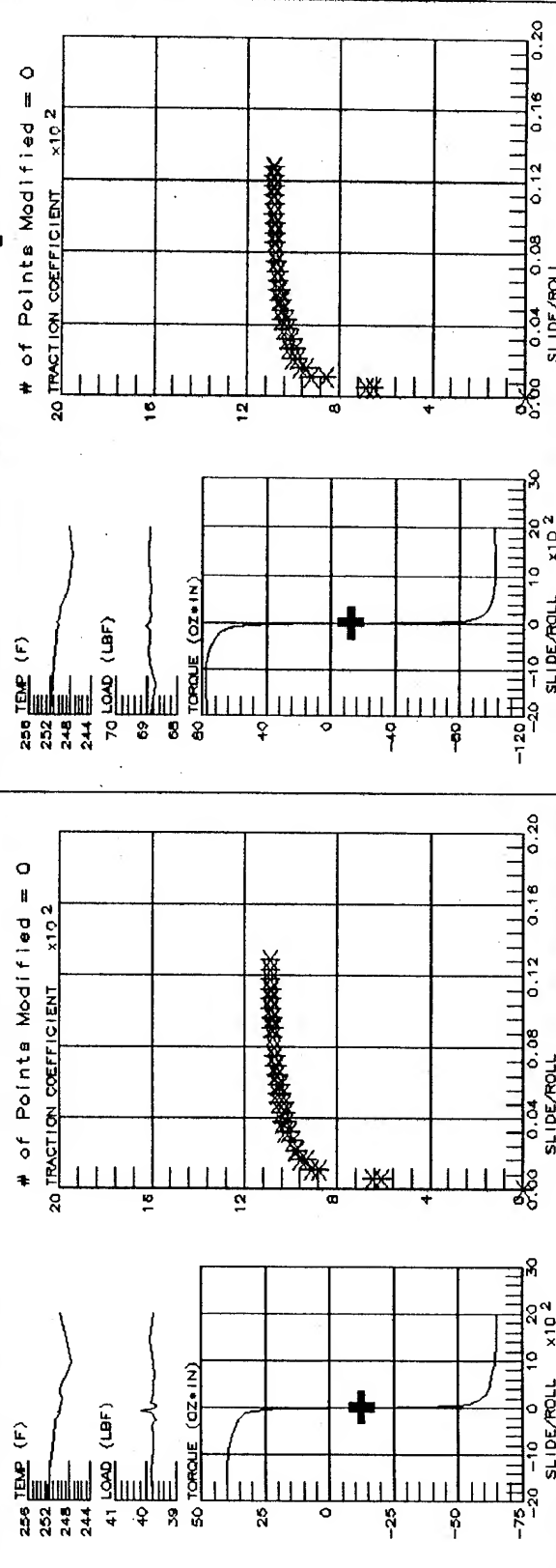
CG 66-92 Krytox 143 az #139 FILE: cg250m
250F 40LBF 1270RPM #19



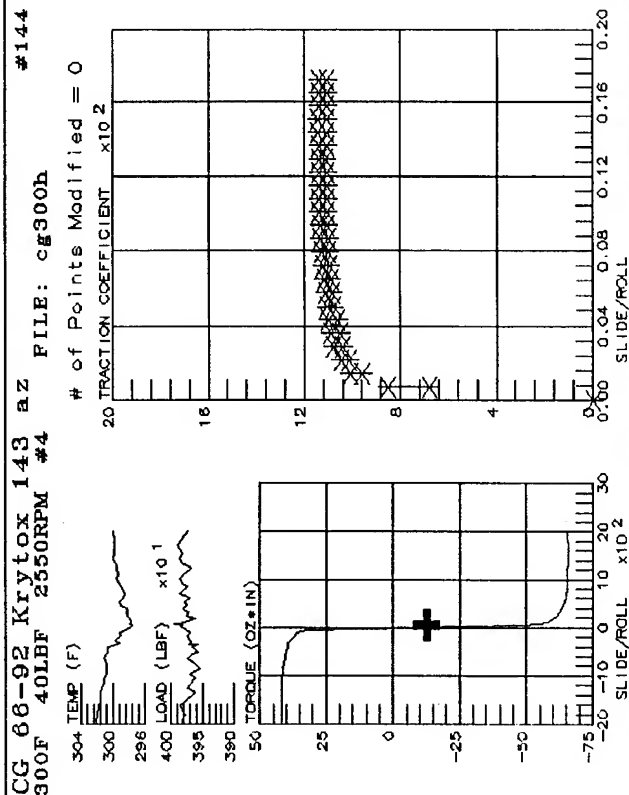
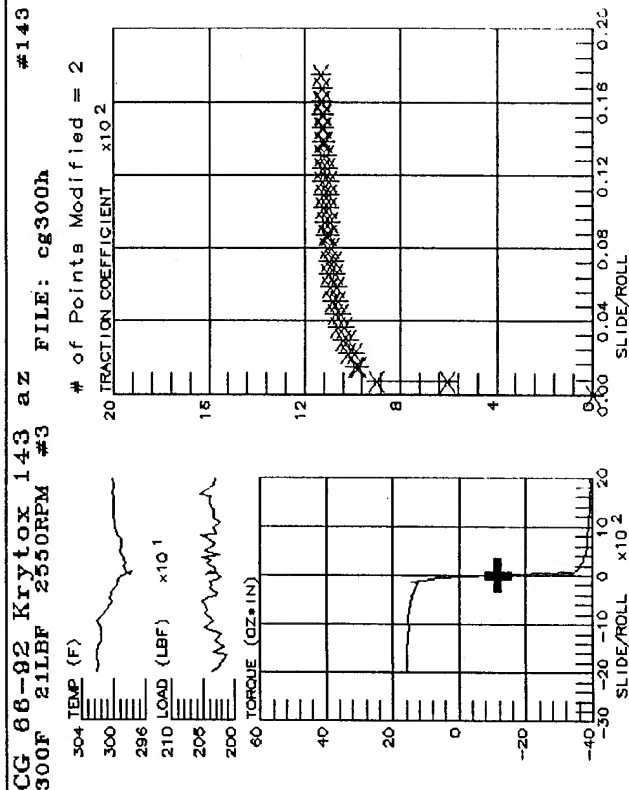
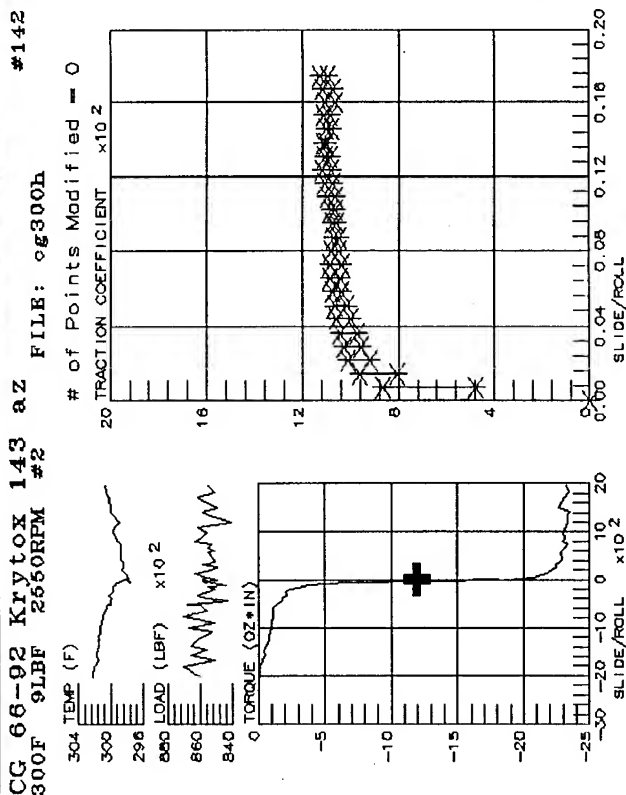
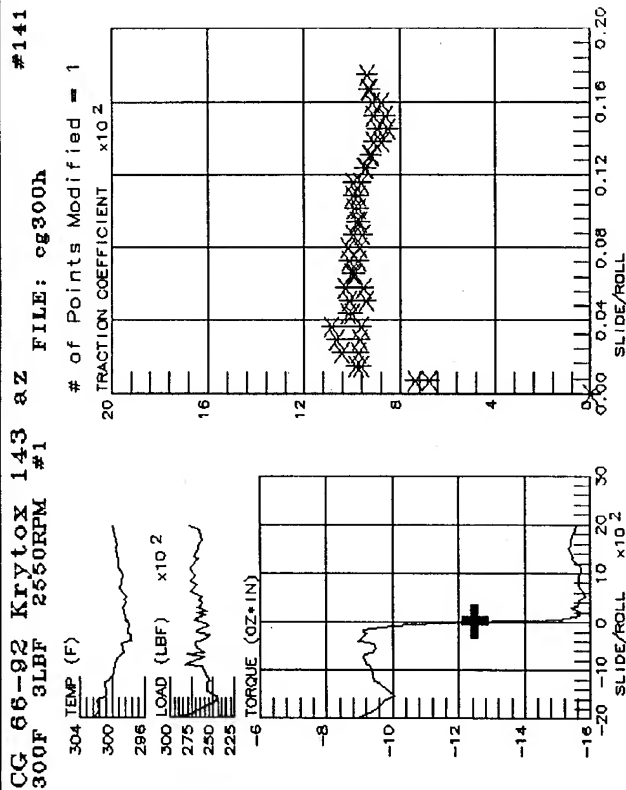
CG 66-92 Krytox 143 az #138 FILE: cg250m
250F 21LBF 1270RPM #18



CG 66-92 Krytox 143 az #140 FILE: cg250m
250F 70LBF 1270RPM #20



TRACTION DATA



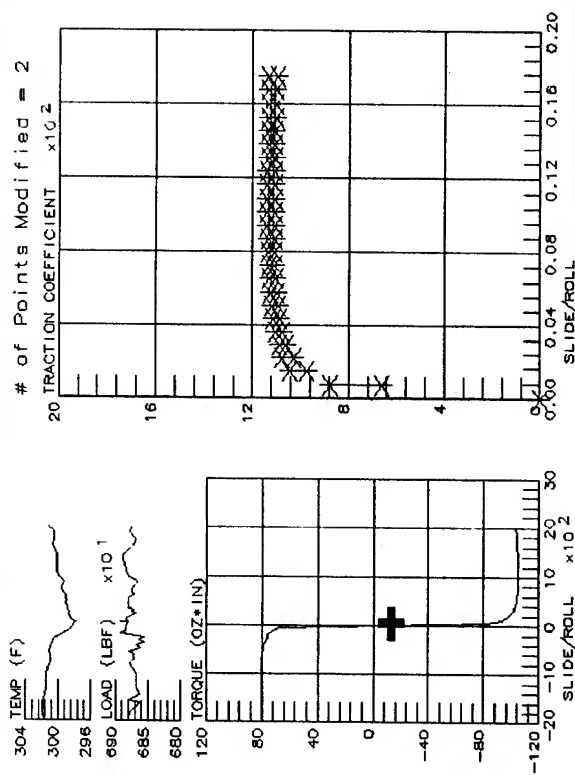
1

CG 66-92 Krytox 143 az
300F 70LBF 2550RPM #5
FILE: cg300h

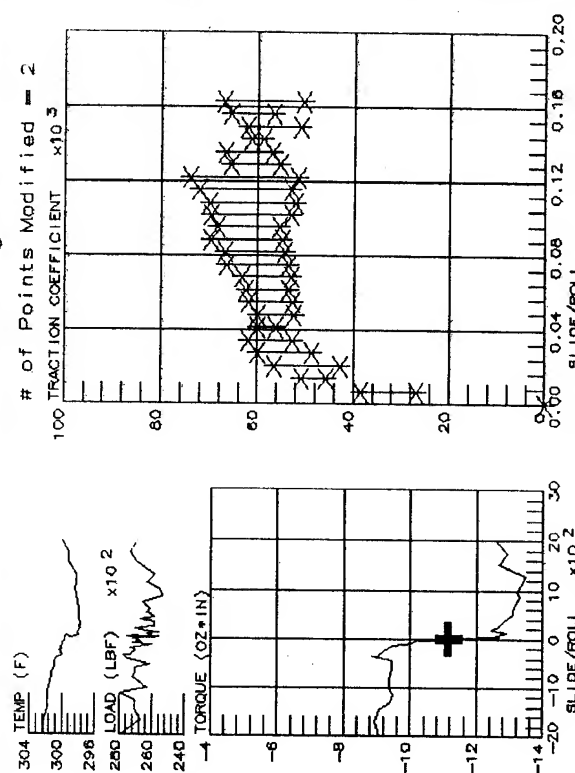
#145

CG 66-92 Krytox 143 az
3300F 3LBF 5100RPM #8 FILE: CG300b
#148

of Points Modified = 2



of Points Modified - 3

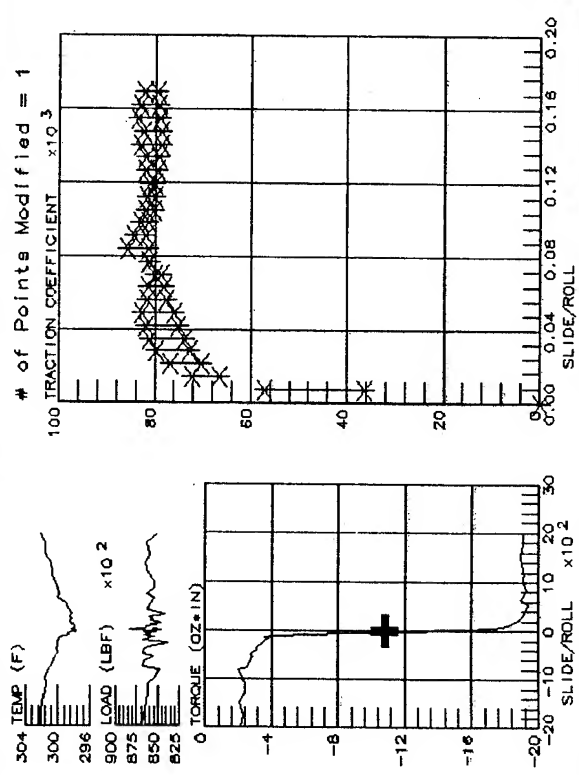


CG 66-92 Krytox 143 az
300F 9LBF 5100RPM #7 FILE: cg300h
#147

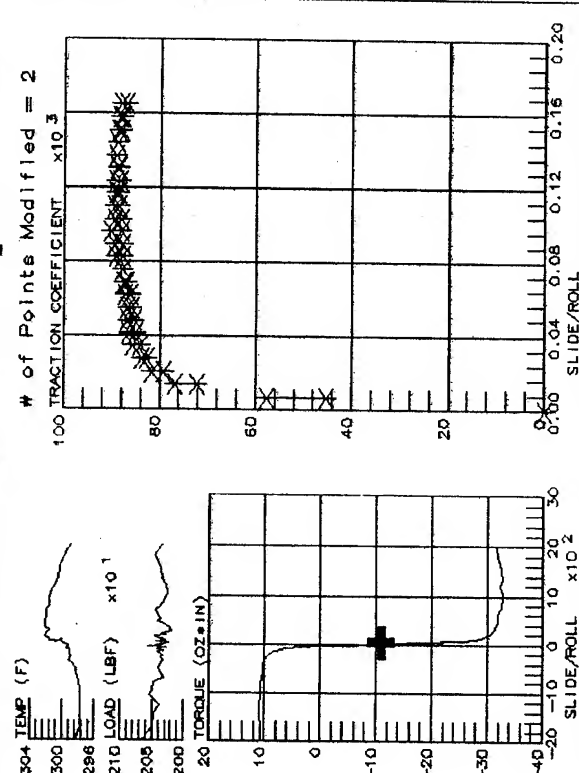
27142

CG 66-92 Krytox 143 az	#148
900F 21BF 5100RPM #8	FILE. CR300b

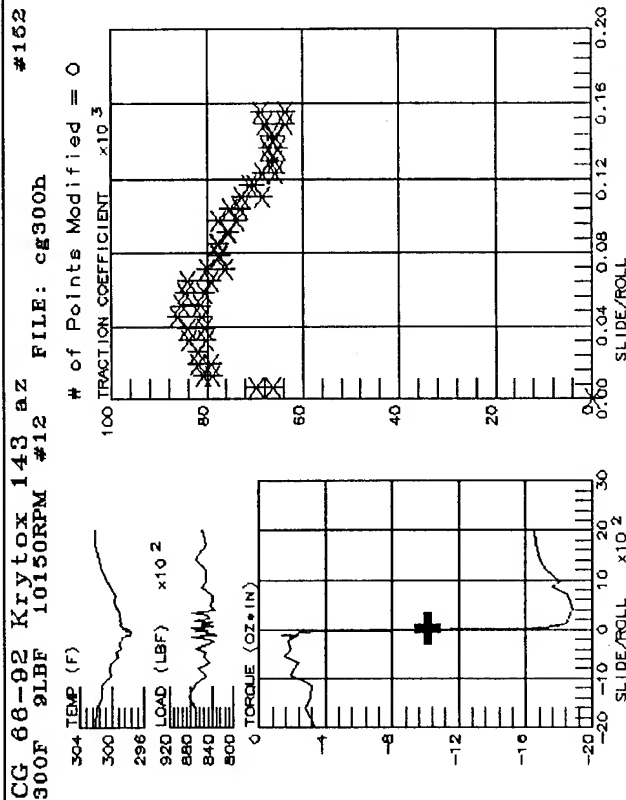
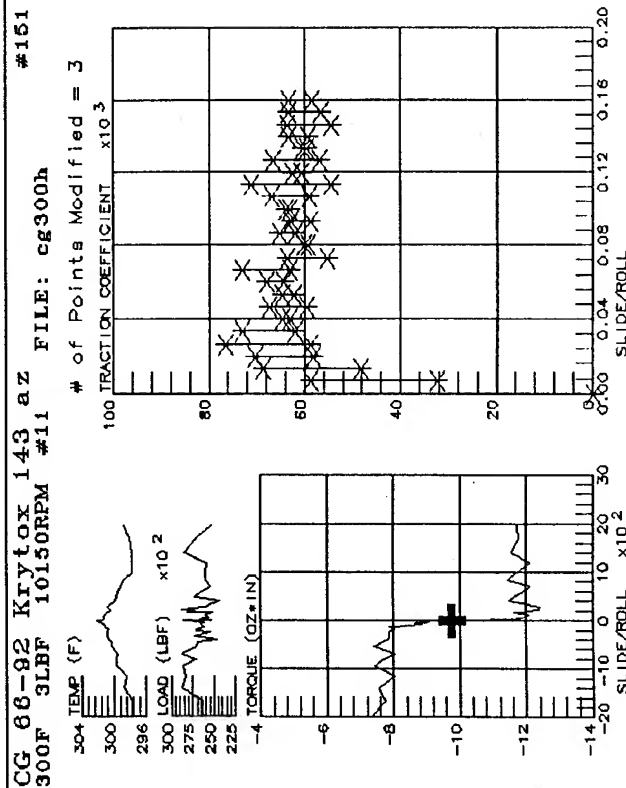
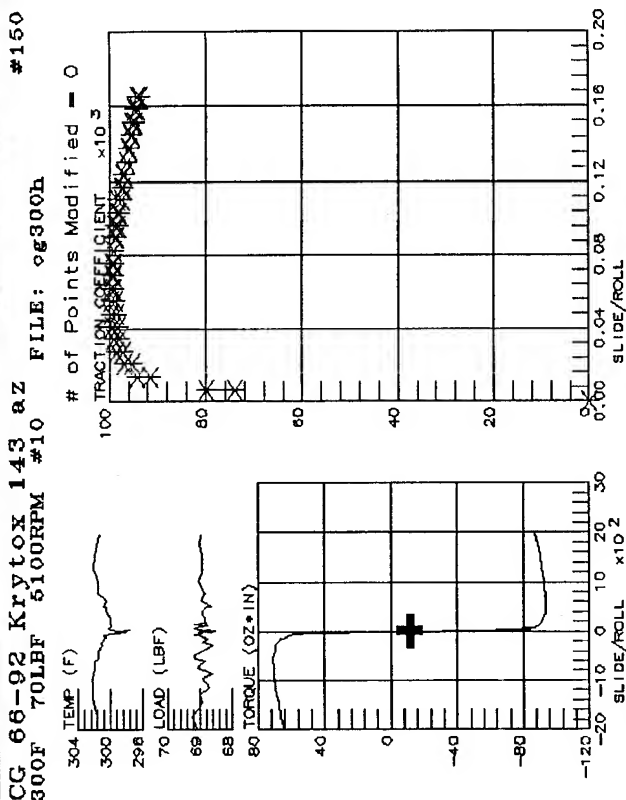
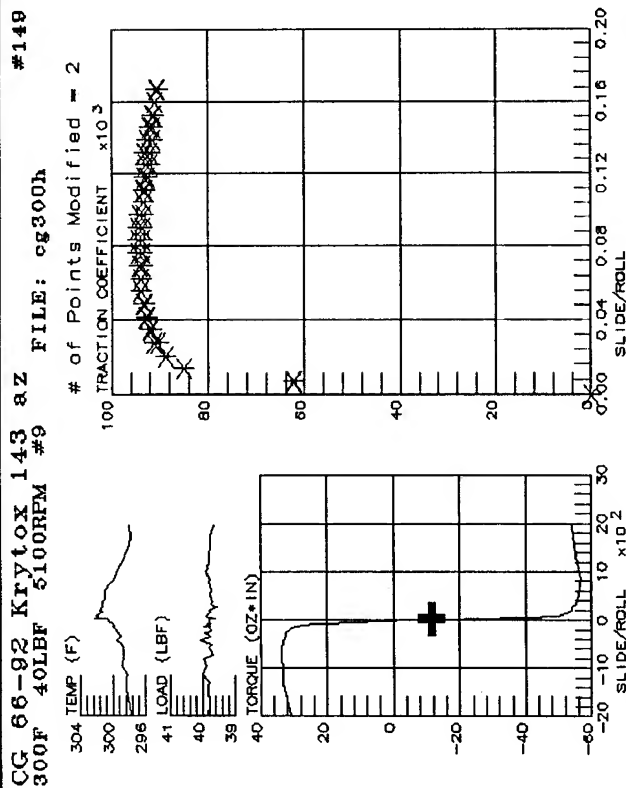
of Points Modified = 1



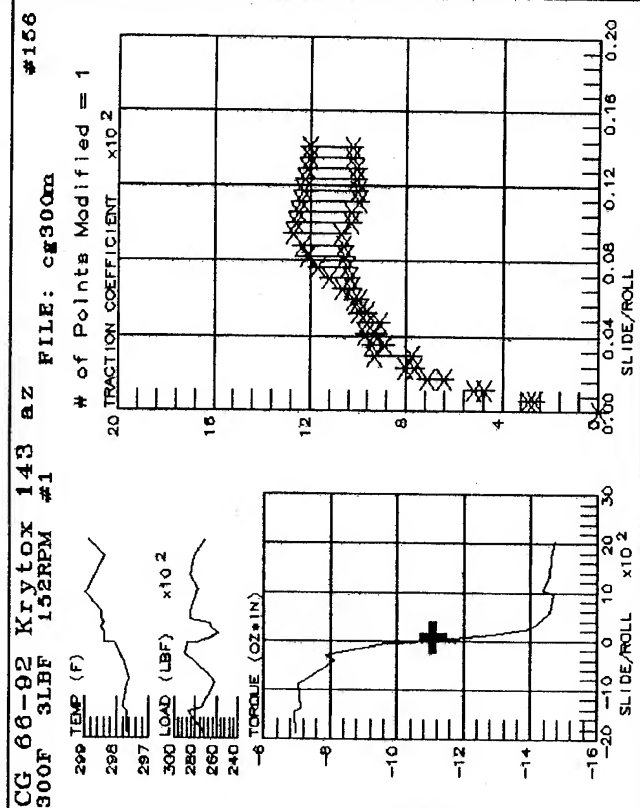
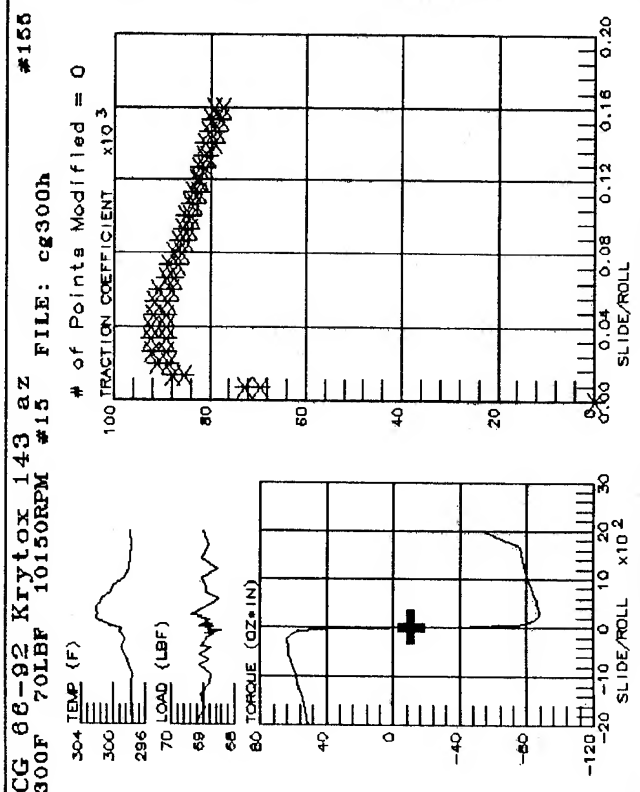
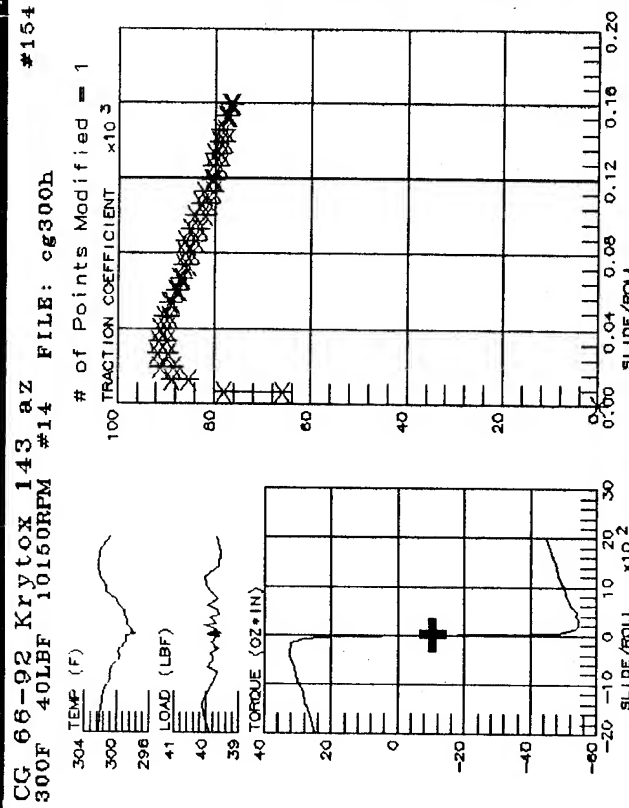
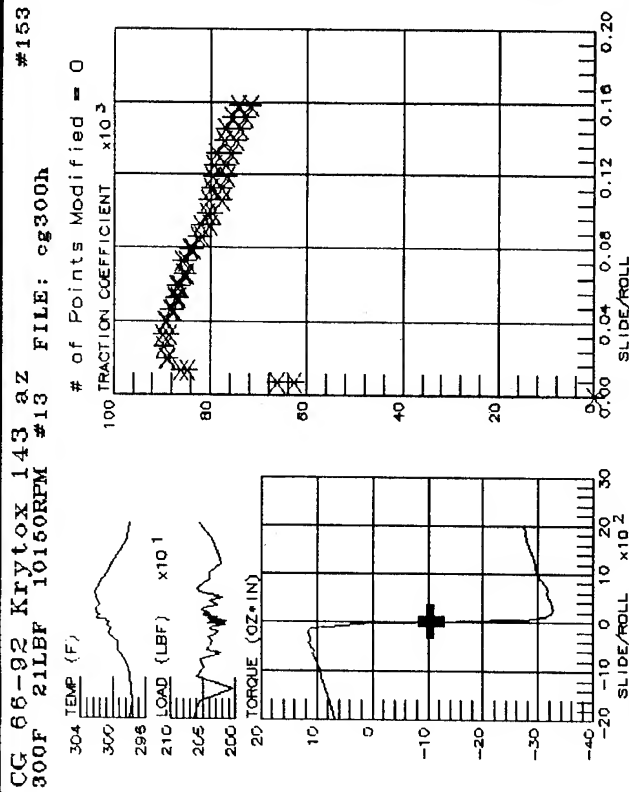
Effect of Polystyrene Modified -



TRACTION DATA



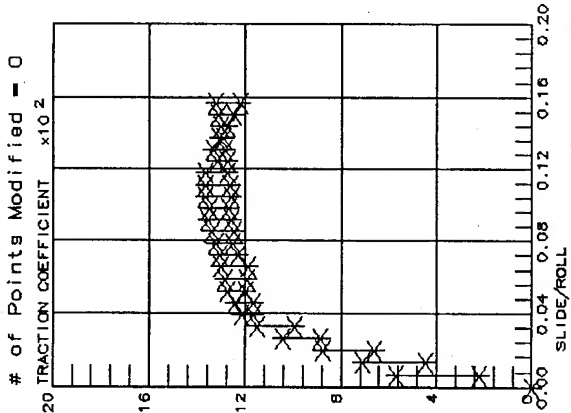
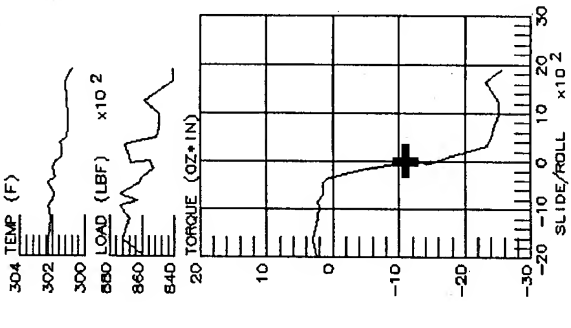
TRACTION DATA



TRACTION DATA

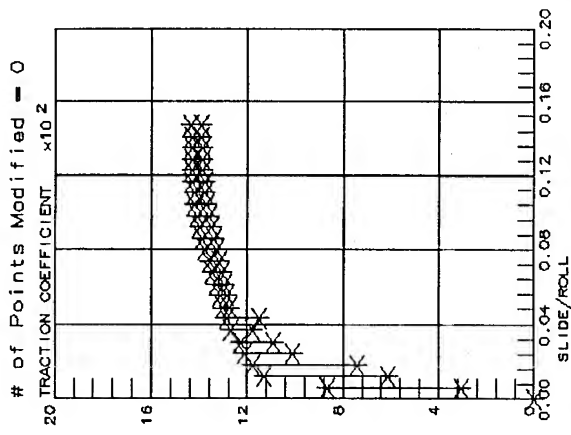
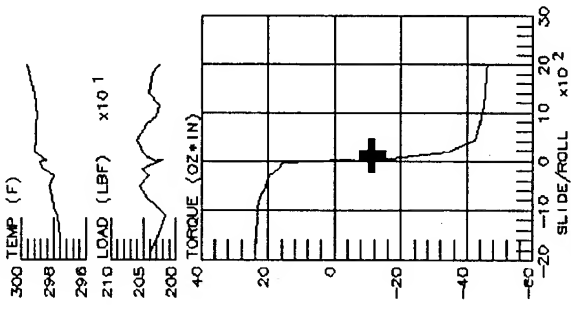
CG 66-92 Krytox 143 az #157
300F 9LBF 152RPM #2 FILE: cg300m

of Points Modified = 0



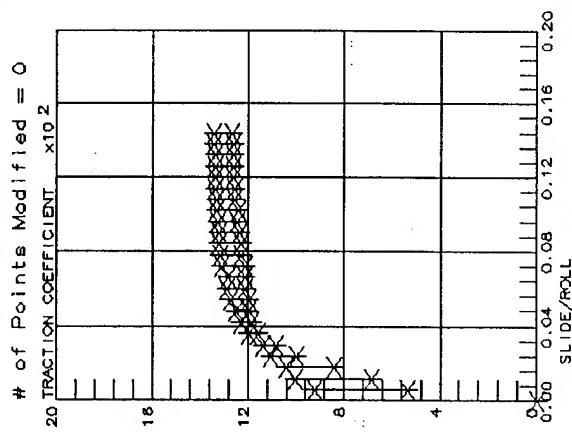
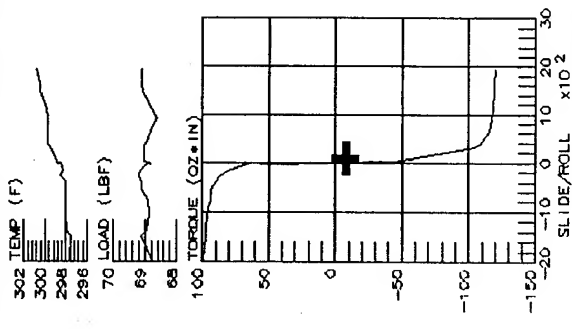
CG 66-92 Krytox 143 az #158
300F 21LBF 152RPM #3 FILE: cg300m

of Points Modified = 0



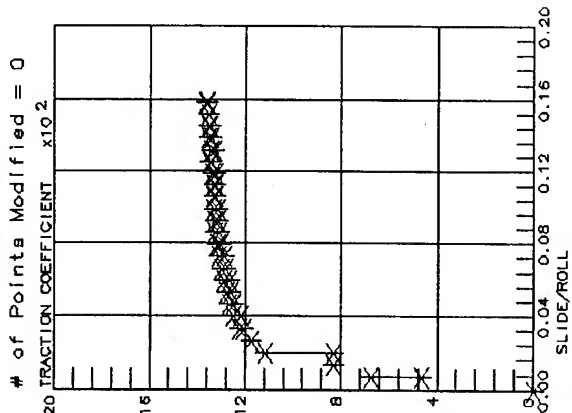
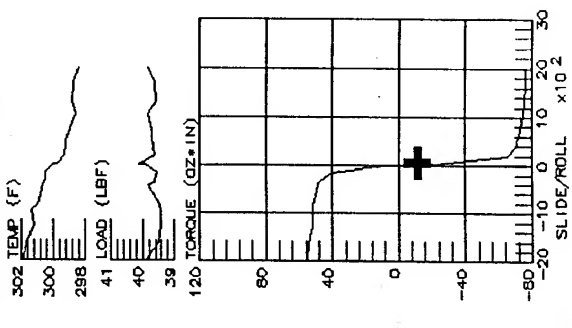
CG 66-92 Krytox 143 az #160
300F 70LBF 152RPM #5 FILE: cg300m

of Points Modified = 0

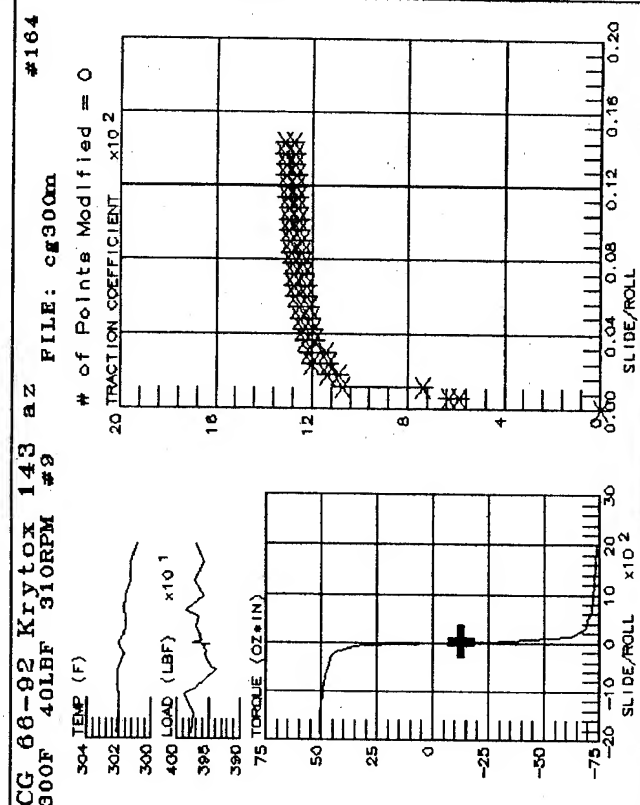
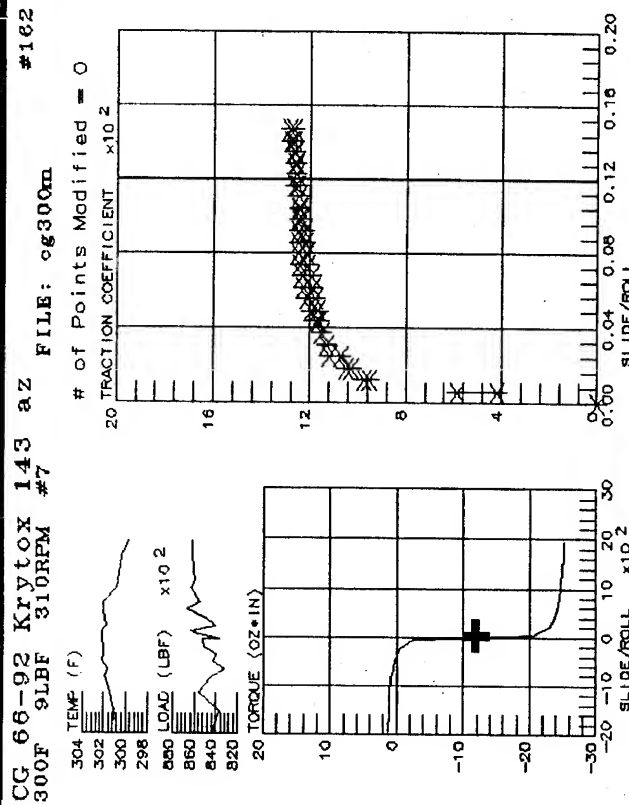
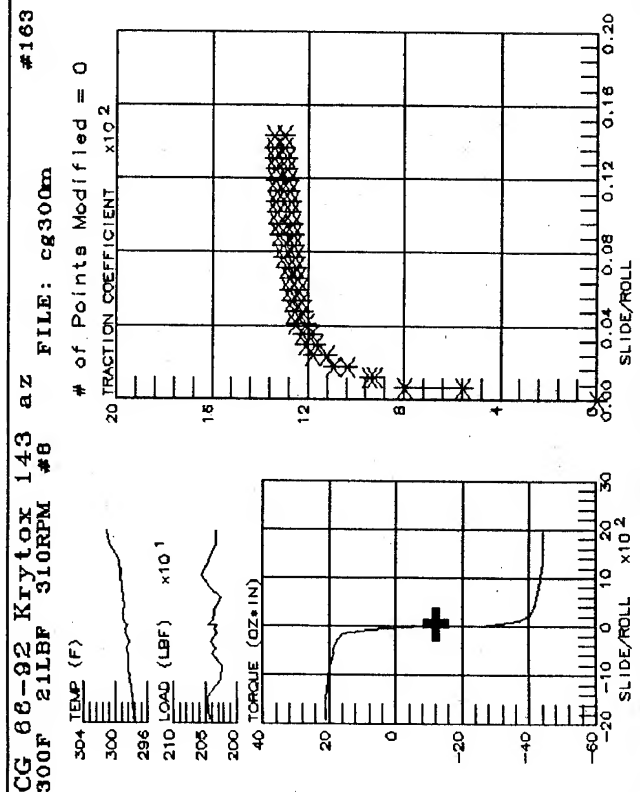
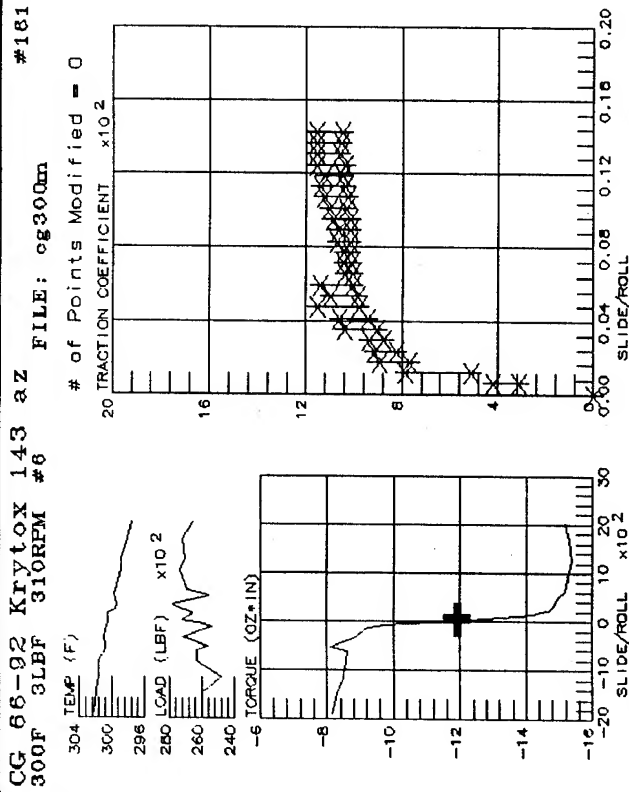


CG 66-92 Krytox 143 az #159
300F 40LBF 152RPM #4 FILE: cg300m

of Points Modified = 0

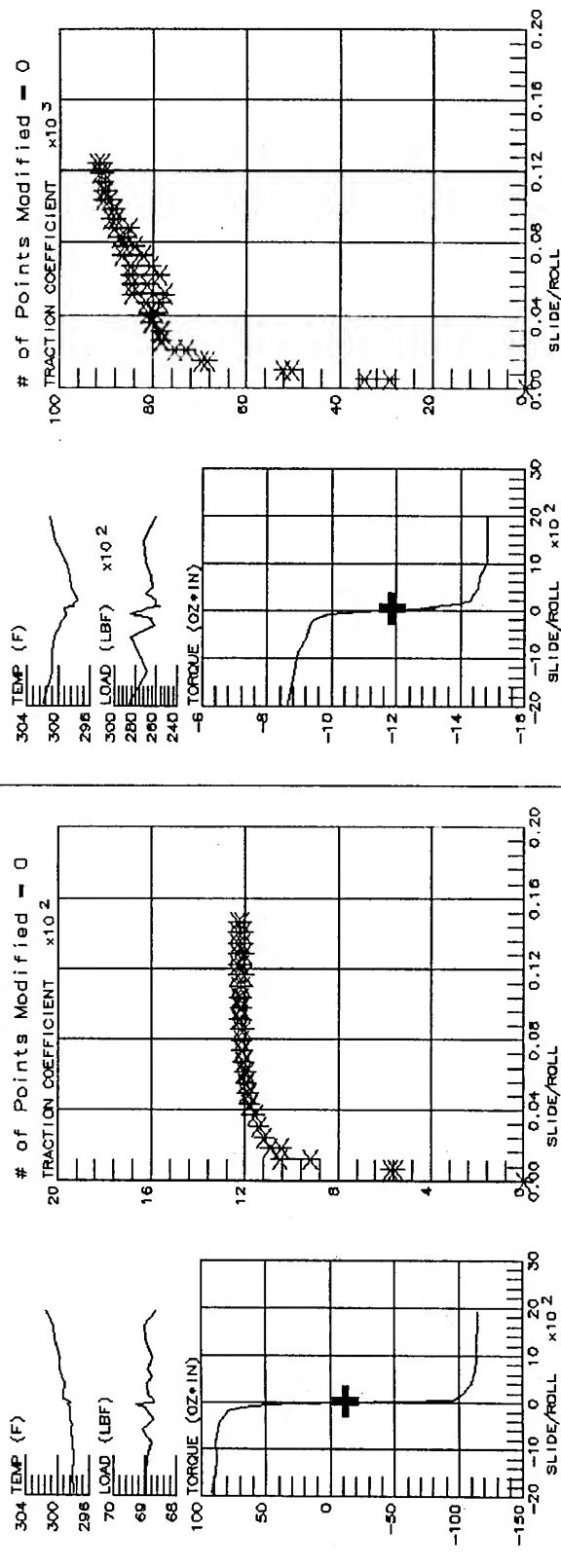


TRACTION DATA

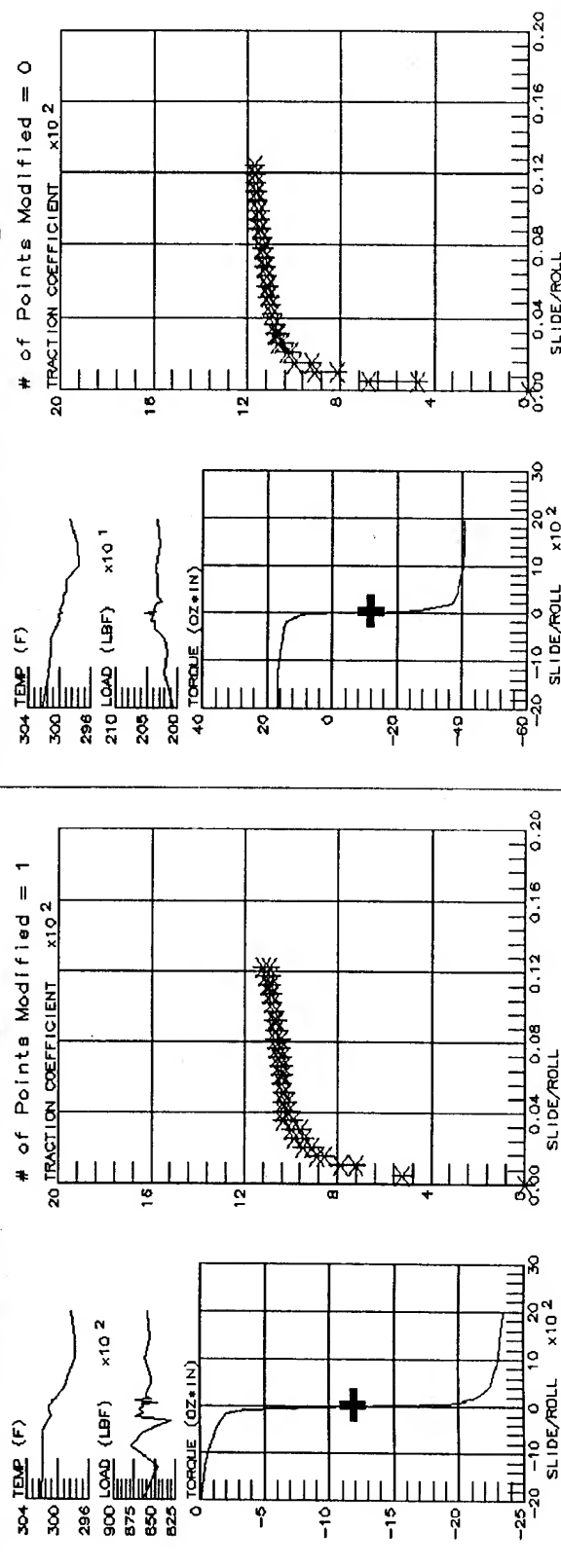


TRACTION DATA

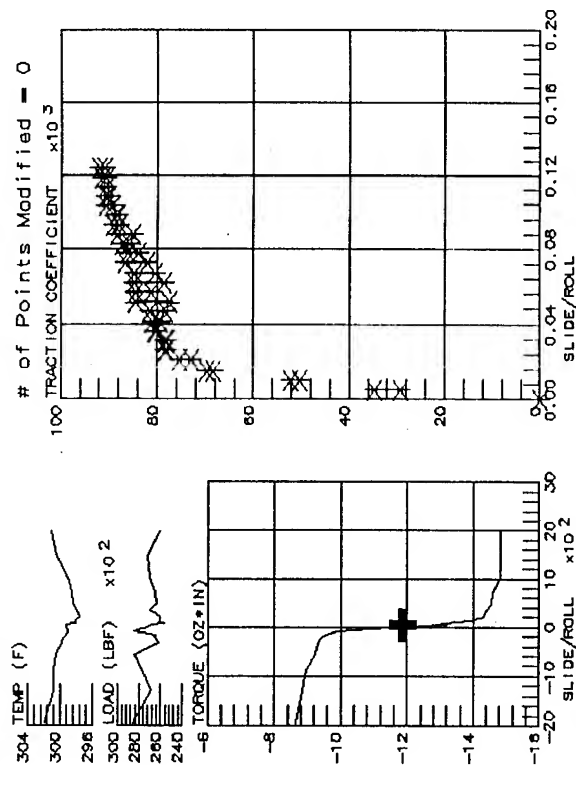
CG 66-92 Krytox 143 az FILE: cg300m #165
300F 70LBF 310RPM #10



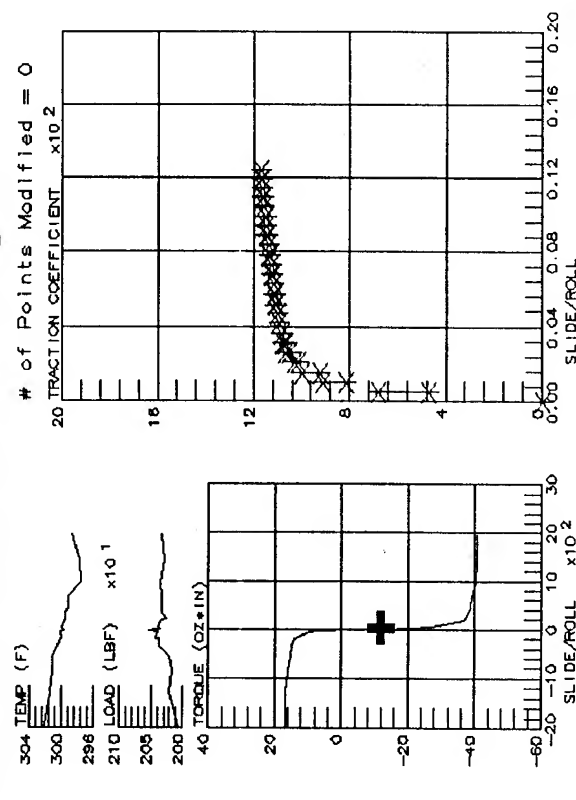
CG 66-92 Krytox 143 az FILE: cg300m #167
300F 9LBF 836RPM #12



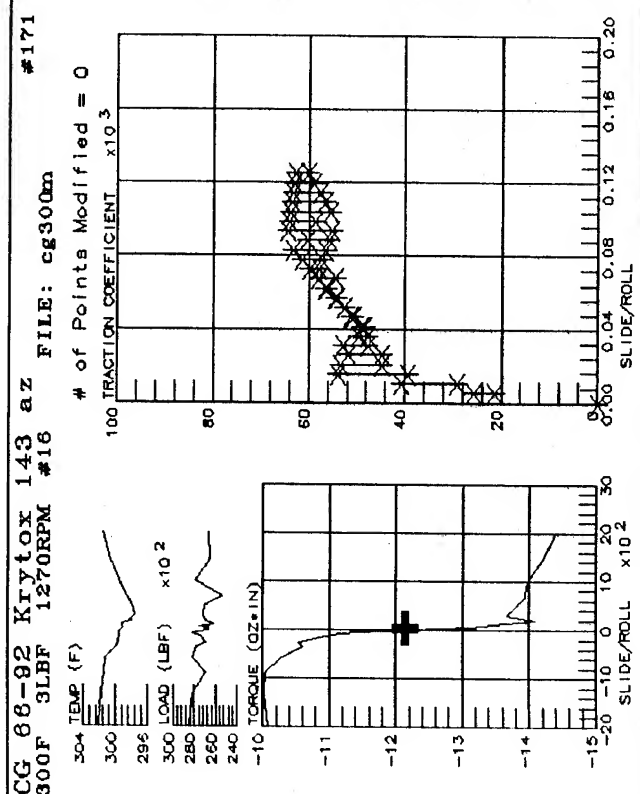
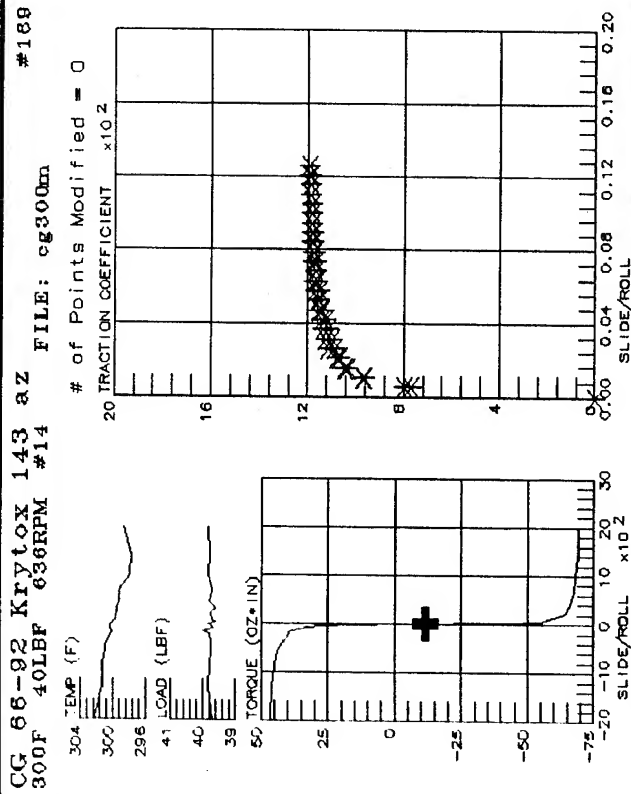
CG 66-92 Krytox 143 az FILE: cg300m #168
300F 3LBF 636RPM #11



CG 66-92 Krytox 143 az FILE: cg300m #168
300F 21LBF 636RPM #13

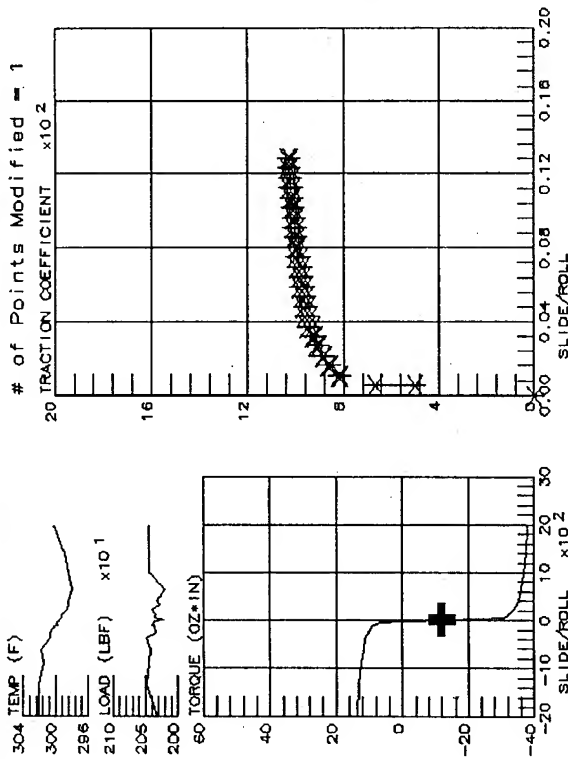


TRACTION DATA



TRACTION DATA

CG 66-92 Krytox 143 az #173
300F 21LBF 1270RPM #18 FILE: cg300m



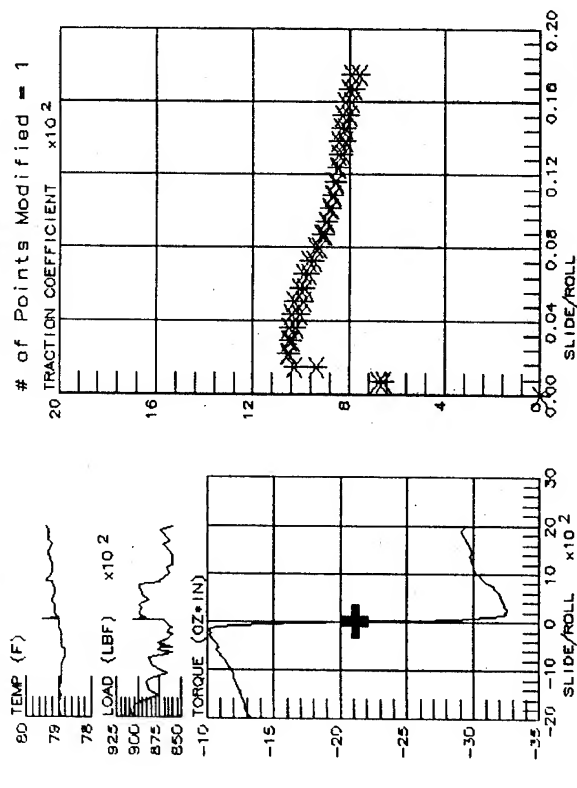
TRACTION DATA

CG 66-92 Krytox 143 az
80F 9LBF 2550RPM #2

#177

FILE: cg80h

of Points Modified = 1

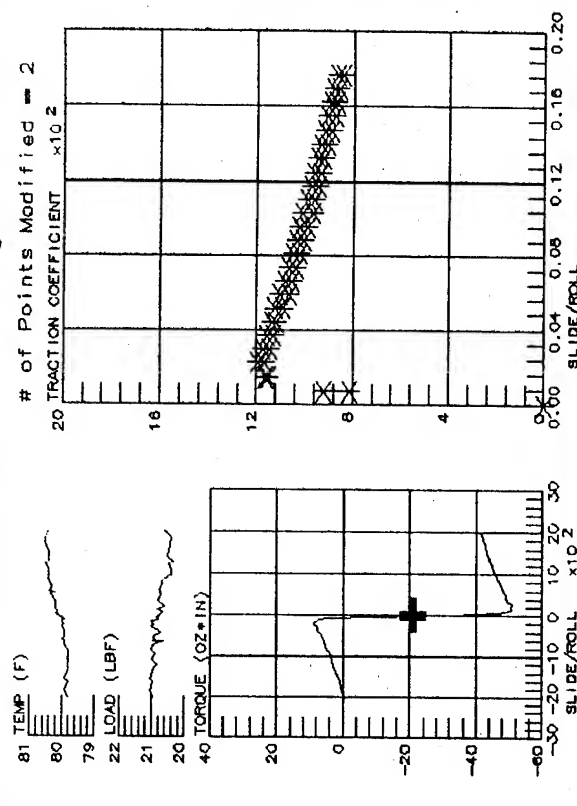


CG 66-92 Krytox 143 az
80F 21LBF 2550RPM #3

#178

FILE: cg80h

of Points Modified = 2

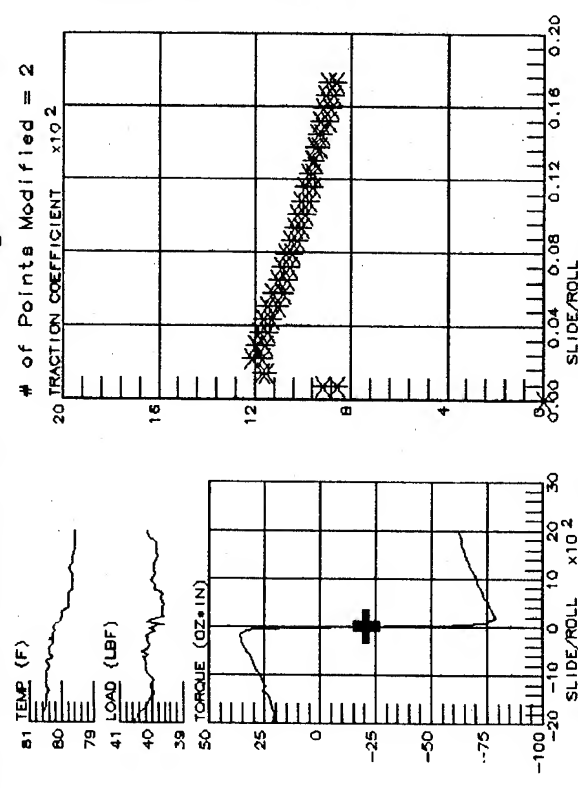


CG 66-92 Krytox 143 az
80F 40LBF 2550RPM #4

#179

FILE: cg80h

of Points Modified = 2

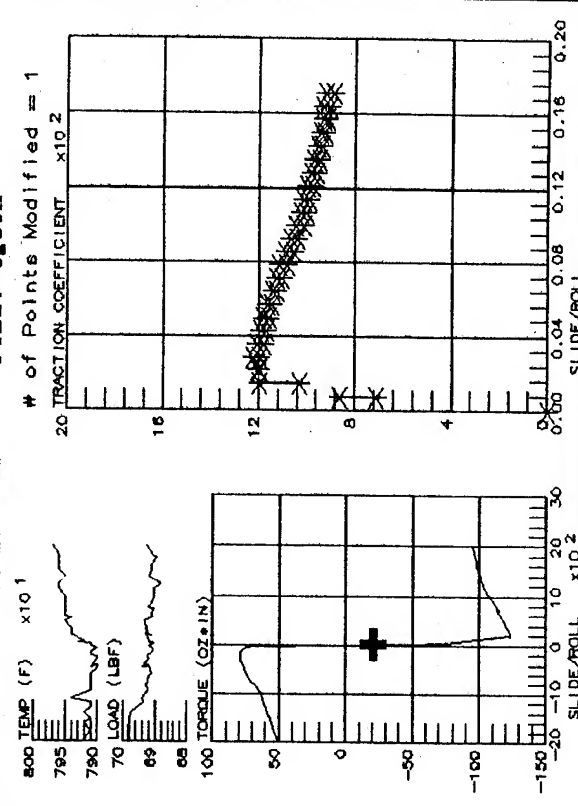


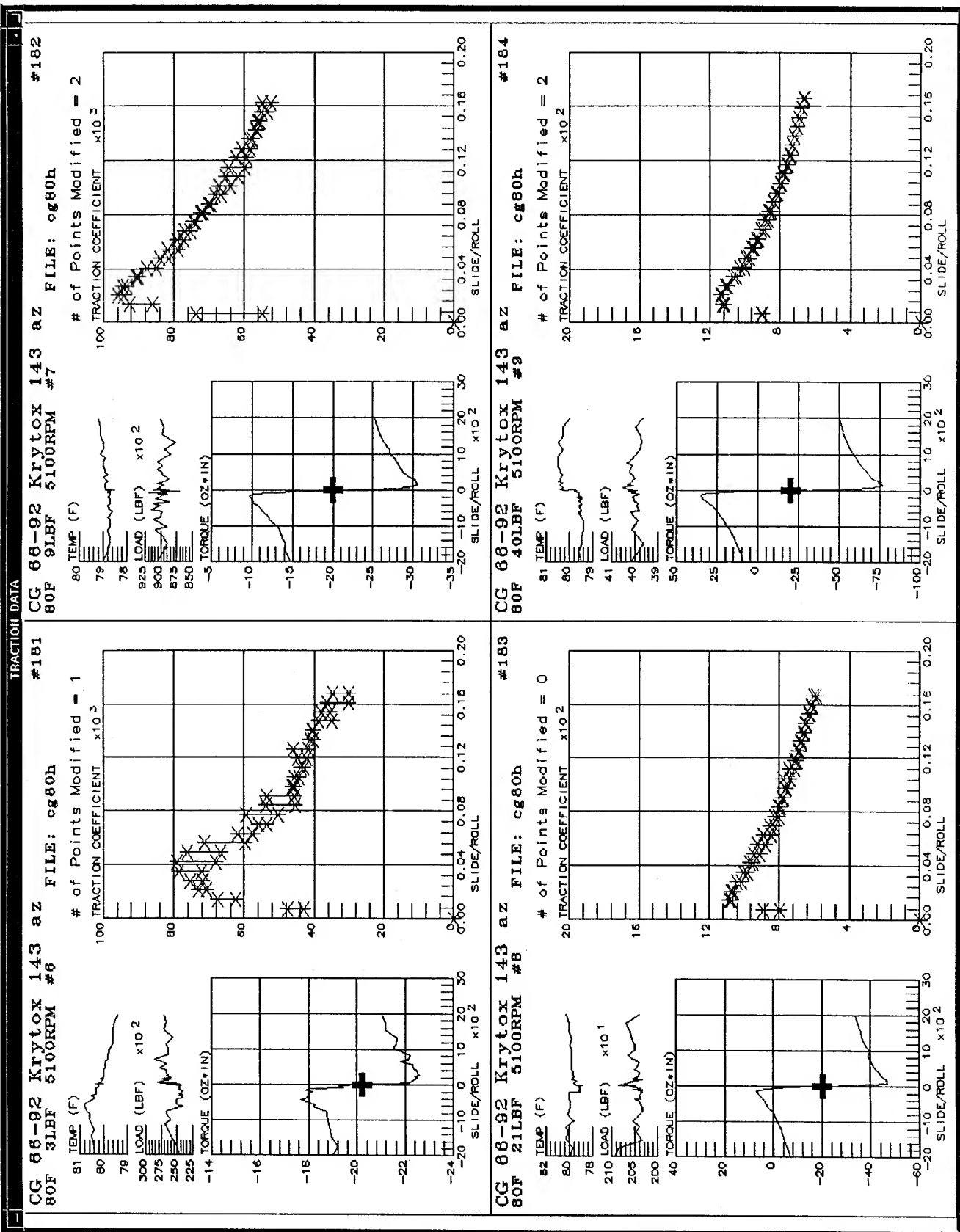
CG 66-92 Krytox 143 az
80F 70LBF 2550RPM #5

#180

FILE: cg80h

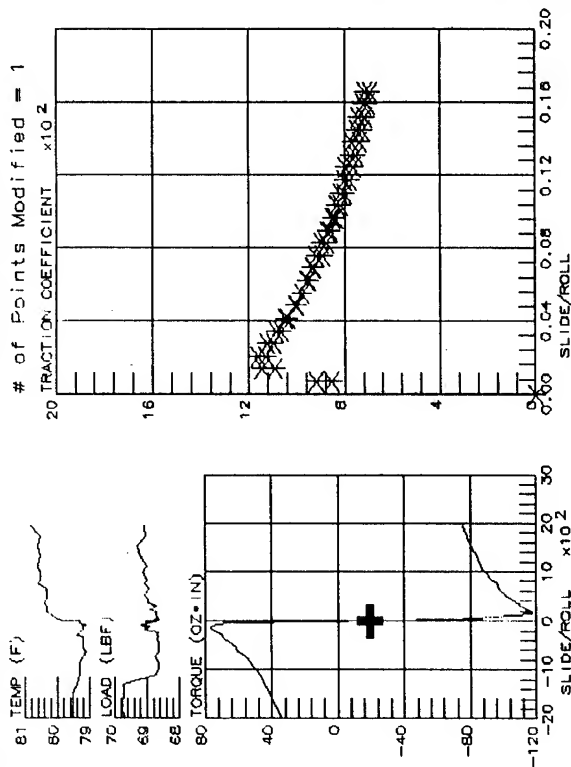
of Points Modified = 1



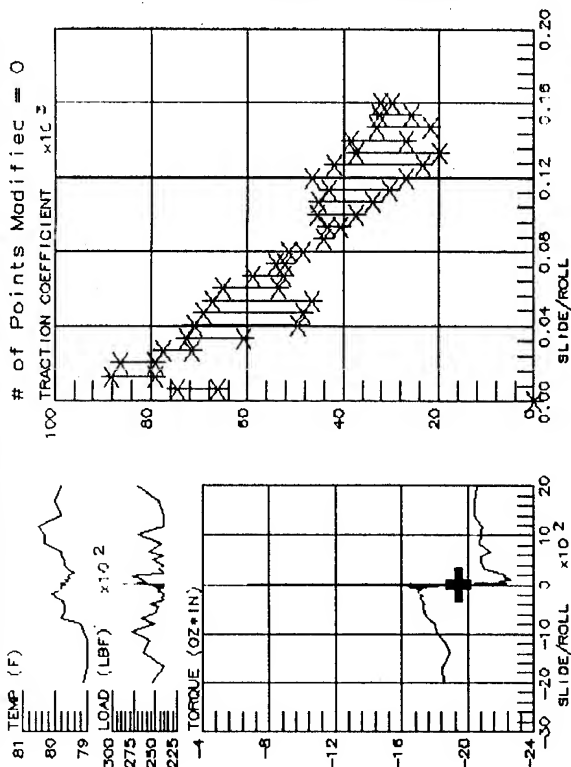


TRACTION DATA

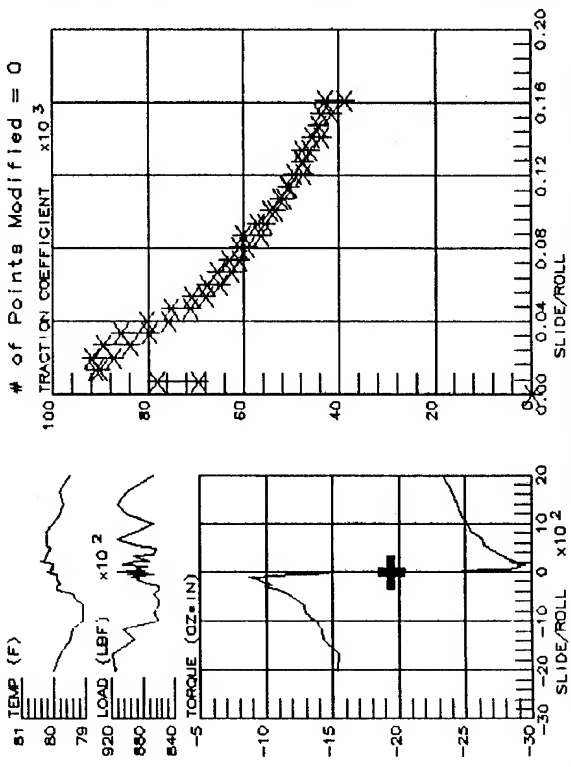
CG 66-92 Krytox 143 az FILE: cg80h #185
80F 70LBF 5100RPM #10



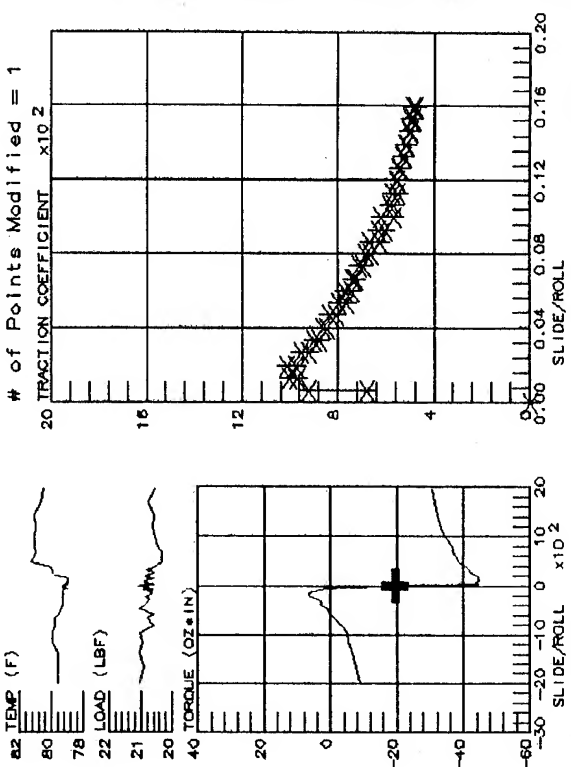
CG 66-92 Krytox 143 az FILE: cg80h #188
80F 3LBF 10150RPM #11



CG 66-92 Krytox 143 az FILE: cg80h #187
80F 9LBF 10150RPM #12



CG 66-92 Krytox 143 az FILE: cg80h #189
80F 21LBF 10150RPM #13



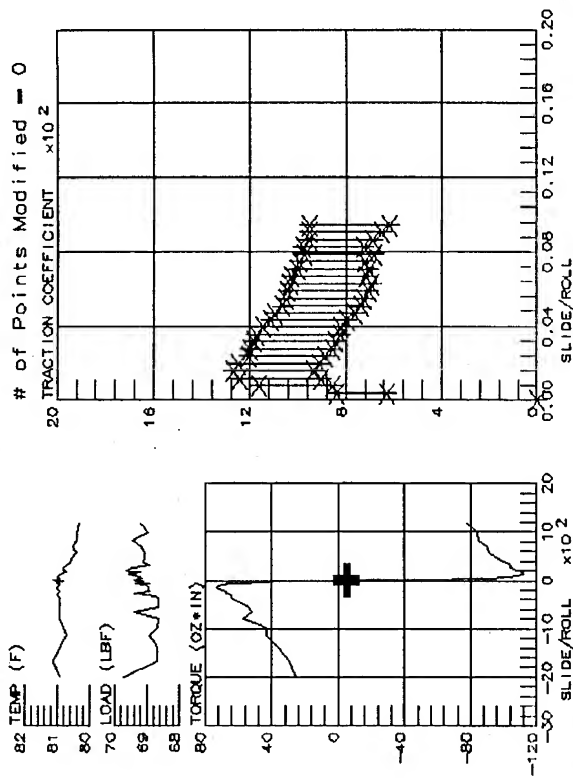
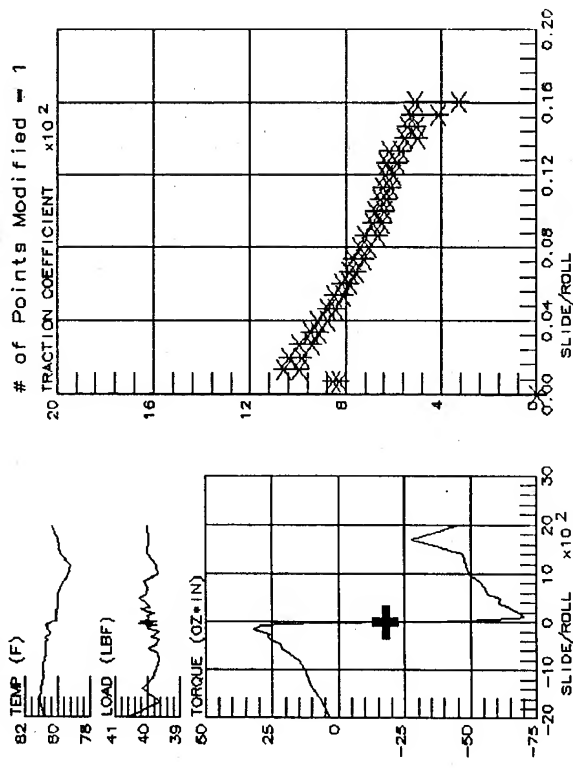
TRACTION DATA

CG 66-92 Krytox 143 az
80F 40LBF 10150RPM #14 FILE: cg80h

CG 66-92 Krytox 143 az
80F 70LBF 10150RPM #15 FILE: cg80h

of Points Modified = 1

of Points Modified = 0

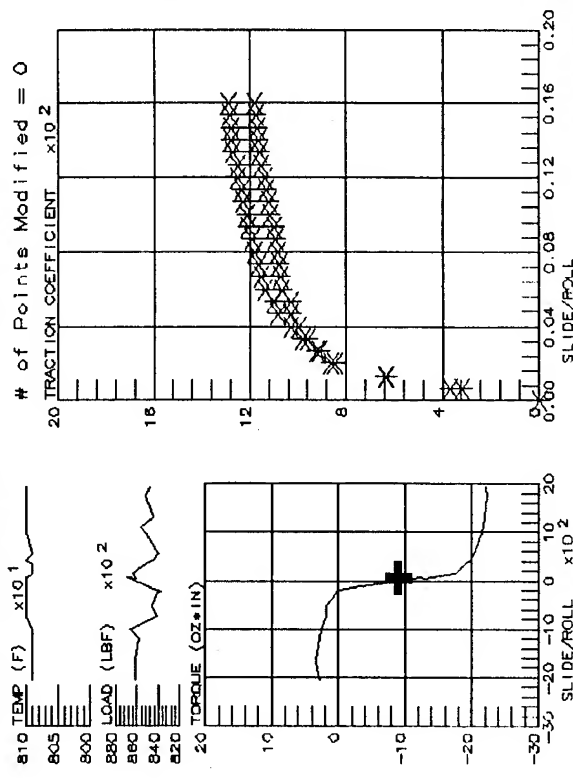
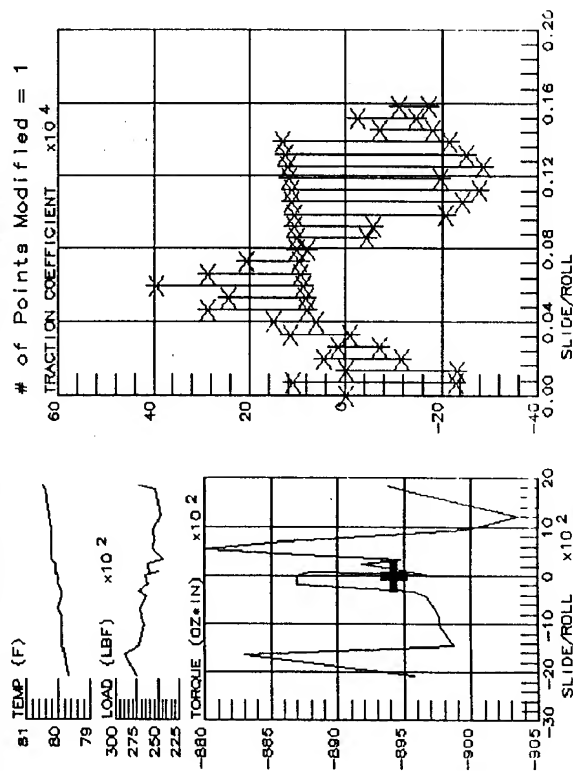


CG 66-92 Krytox 143 az
80F 31LBF 152RPM #1

CG 66-92 Krytox 143 az
80F 91LBF 152RPM #2

of Points Modified = 1

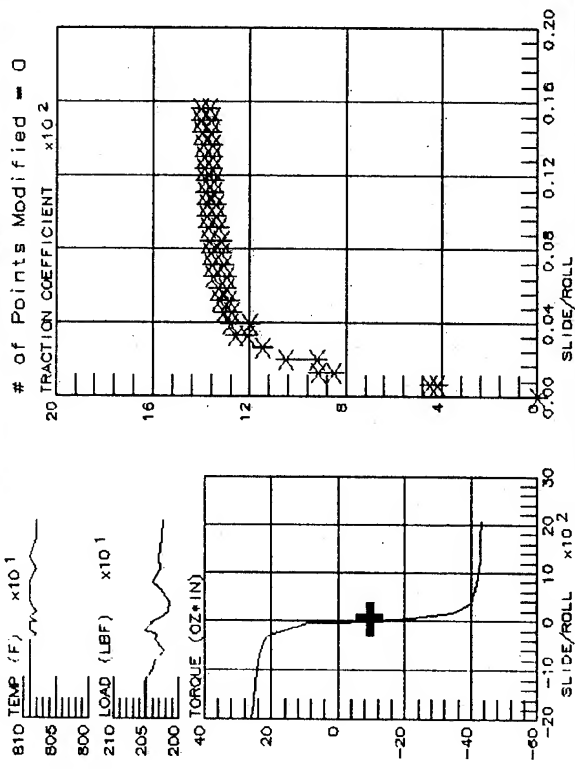
of Points Modified = 0



TRACTION DATA

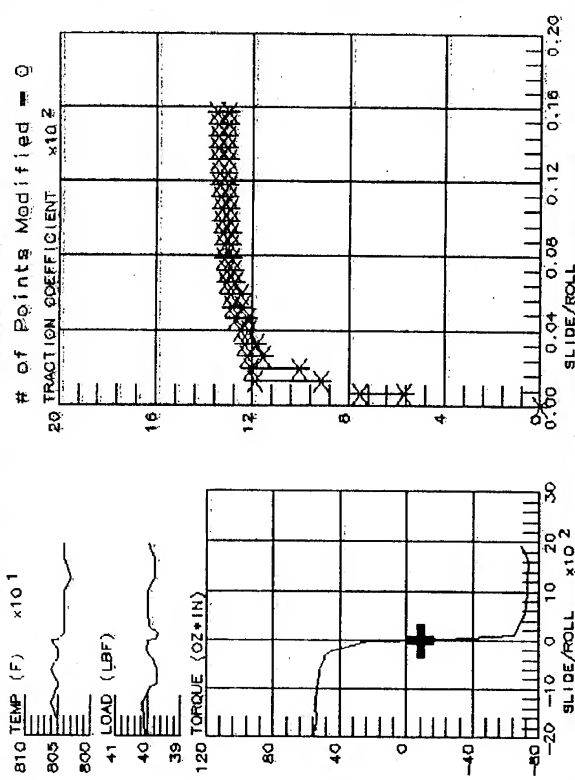
CG 66-92 Krytox 143 az
80F 21LBF 152RPM #3 FILE: cg80m #193

of Points Modified = 0



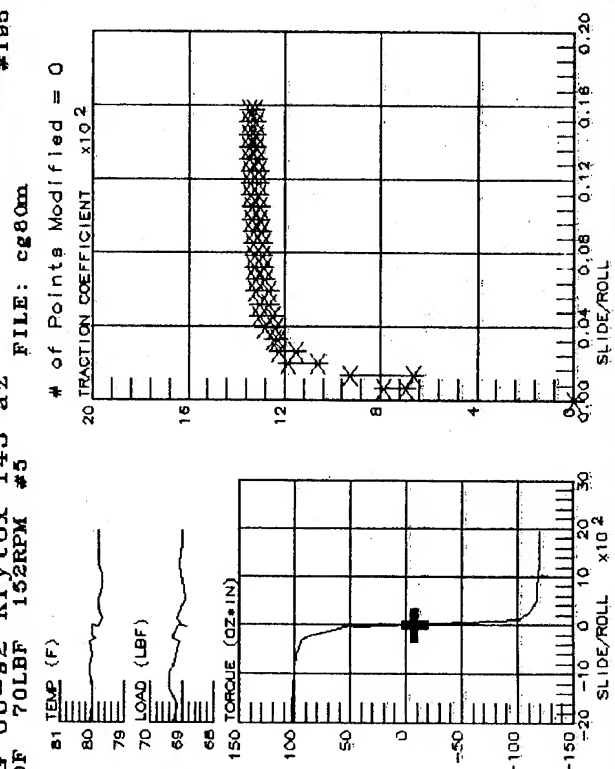
CG 66-92 Krytox 143 az
80F 40LBF 162RPM #4
#194 FILE: 0680m

of Points Modified - 0



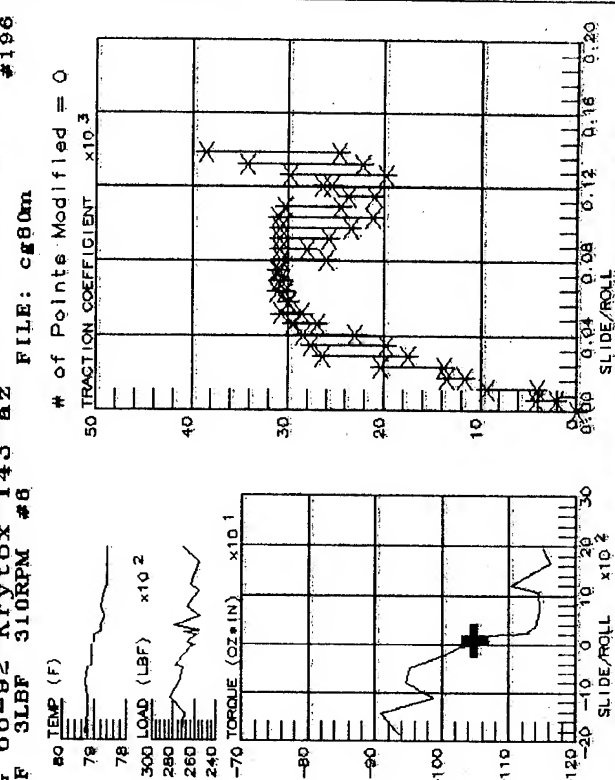
CG 66-92 Krytox 143 az
30F 70LBF 152RPM #5 FILE: cg80m
#185

FILE: cg80m



CG 66-92 Krytox 143 az
80F 3LBF 310RPM #8 FILE: CG80m #196

FILE: cg80m

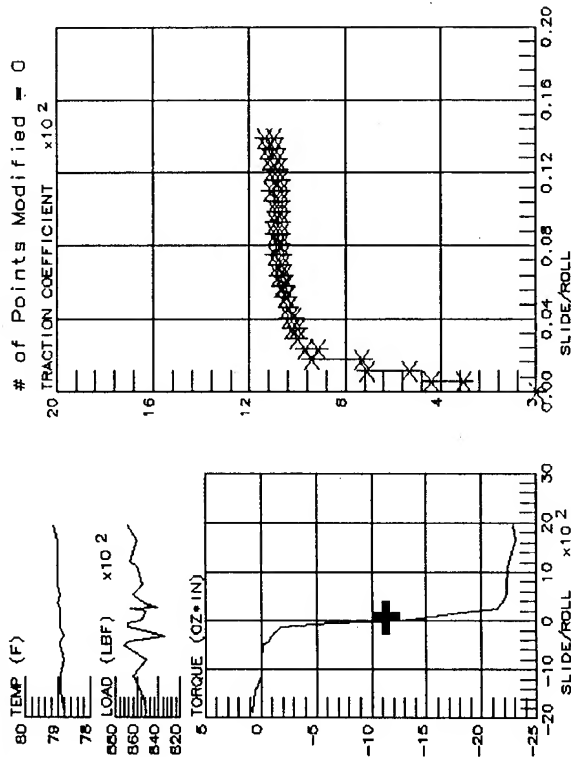


TRACTION DATA

CG 66-92 Krytox 143 az FILE: cg80m
80F 9LBF 310RPM #7

#197

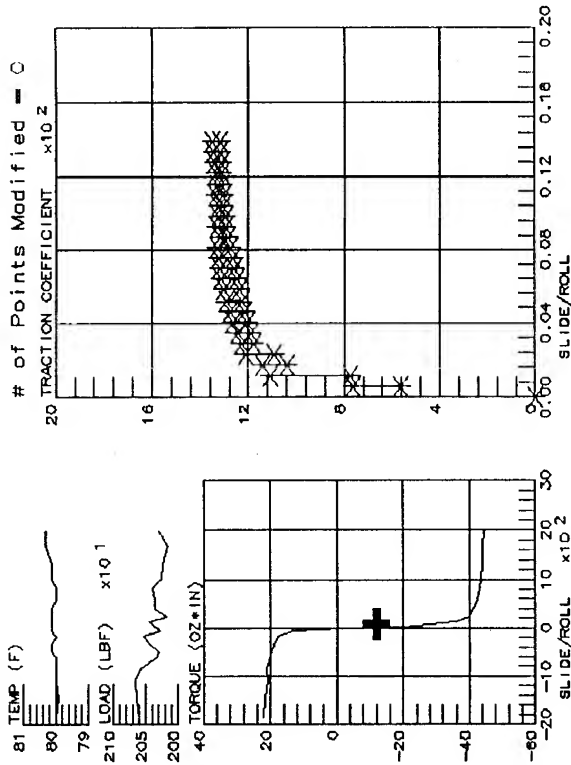
of Points Modified = 0



CG 66-92 Krytox 143 az FILE: cg80m
80F 21LBF 310RPM #8

#198

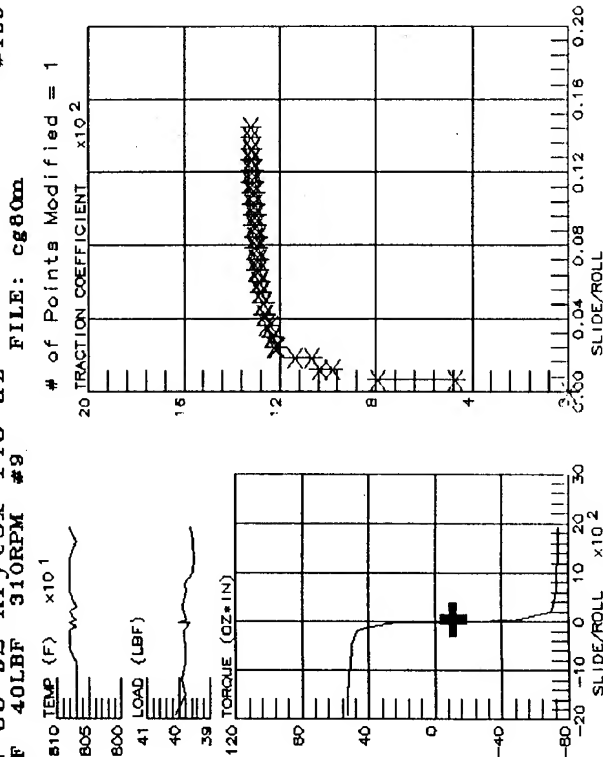
of Points Modified = 0



CG 66-92 Krytox 143 az FILE: cg80m
80F 40LBF 310RPM #9

#199

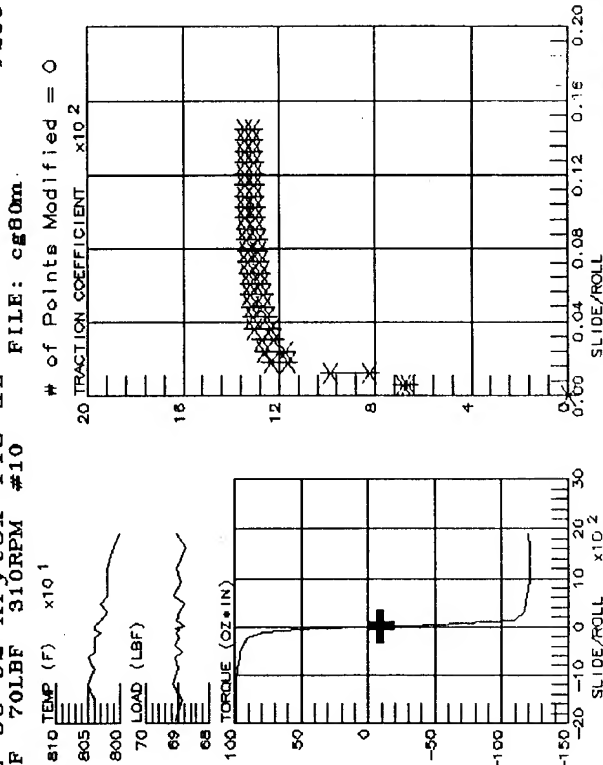
of Points Modified = 1



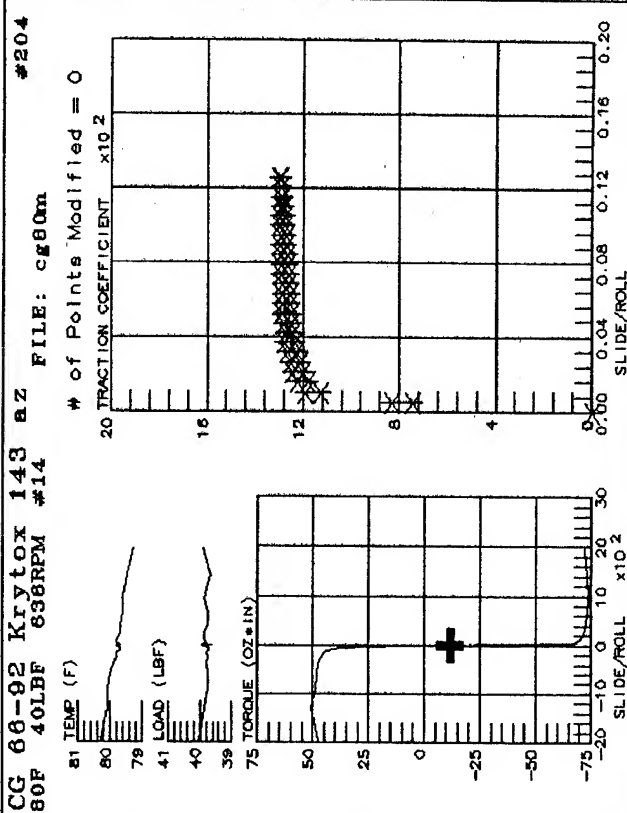
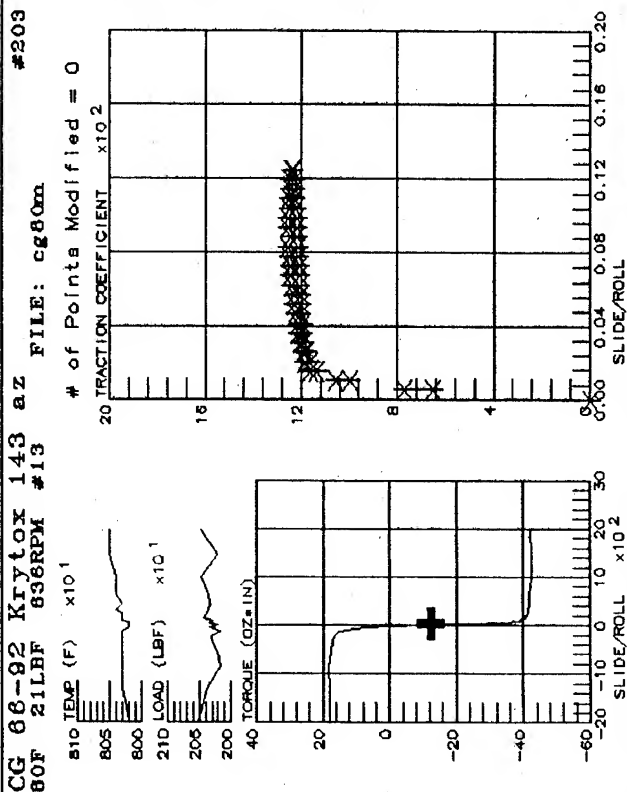
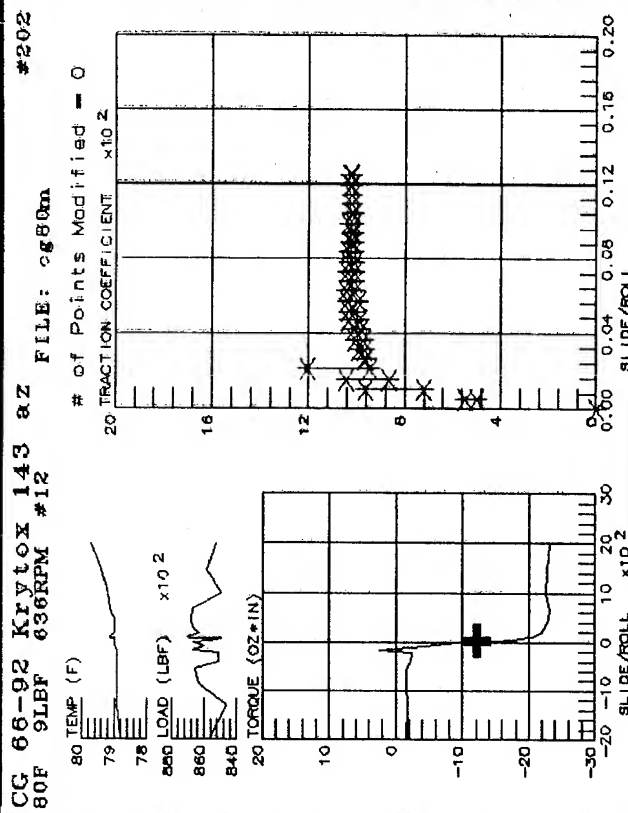
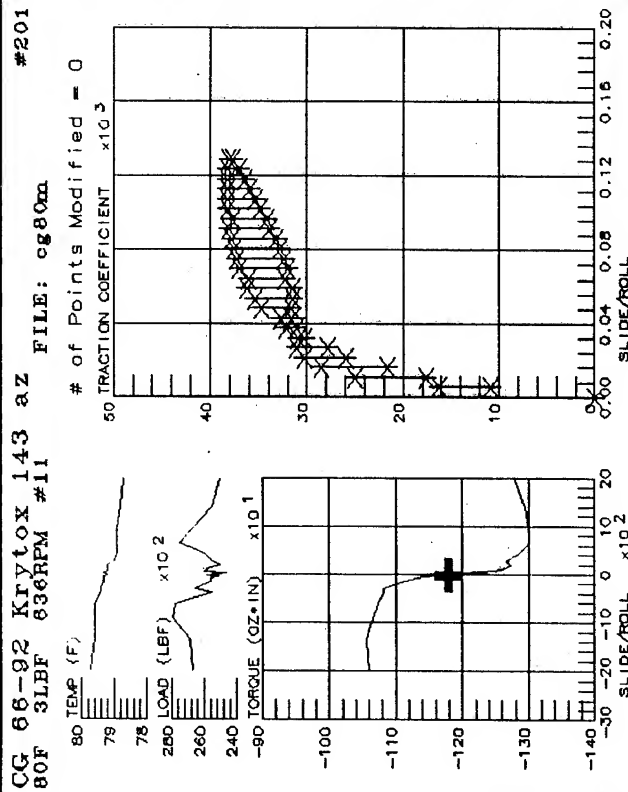
CG 66-92 Krytox 143 az FILE: cg80m
80F 70LBF 310RPM #10

#200

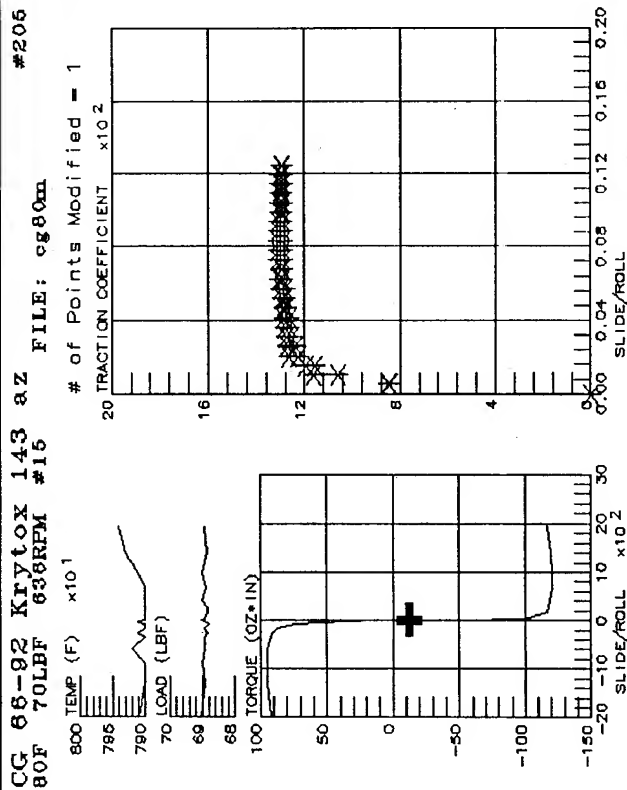
of Points Modified = 0

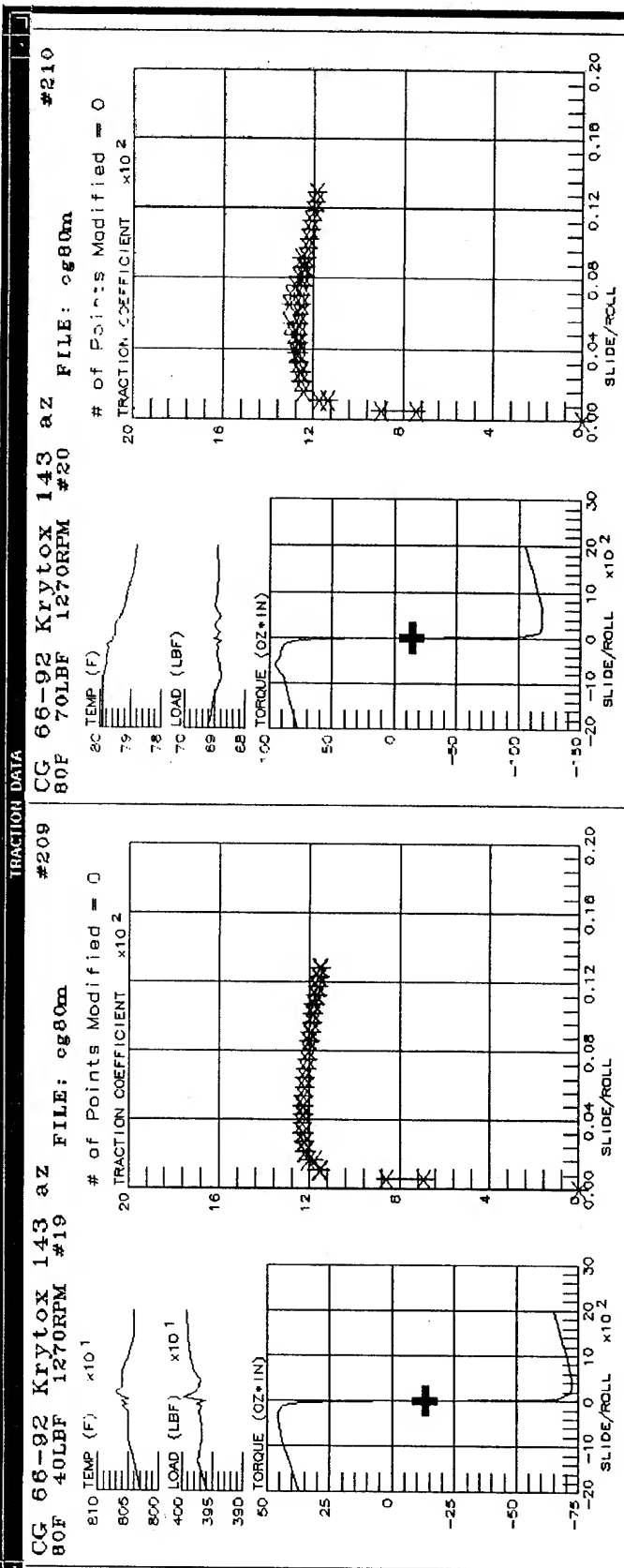


TRACTION DATA



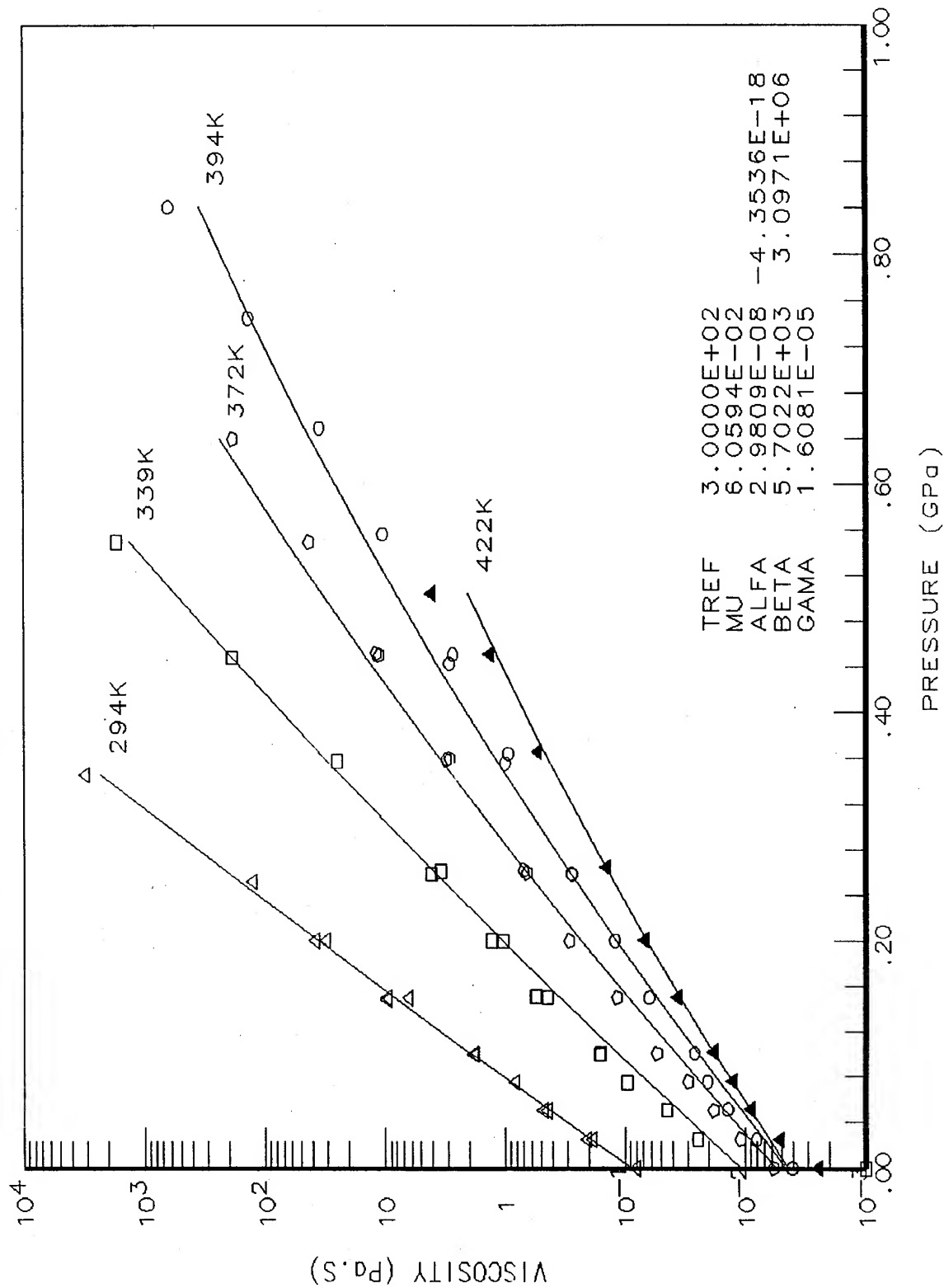
TRACTION DATA





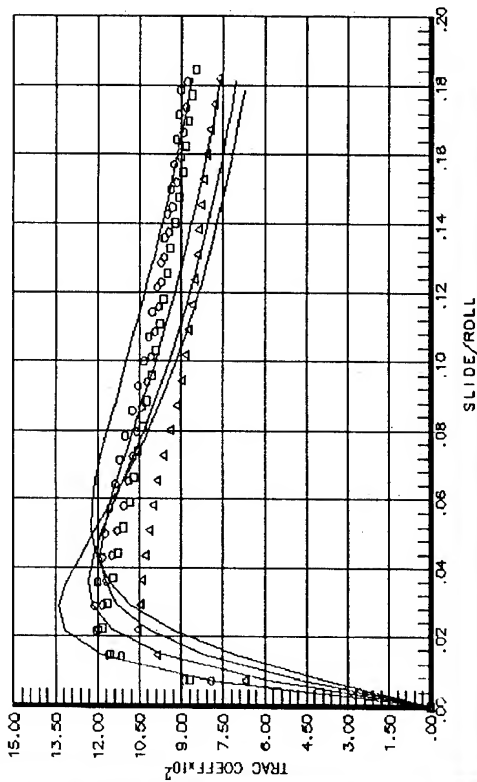
CG 66-92 Krytox 143az

Viscosity Model Type 2



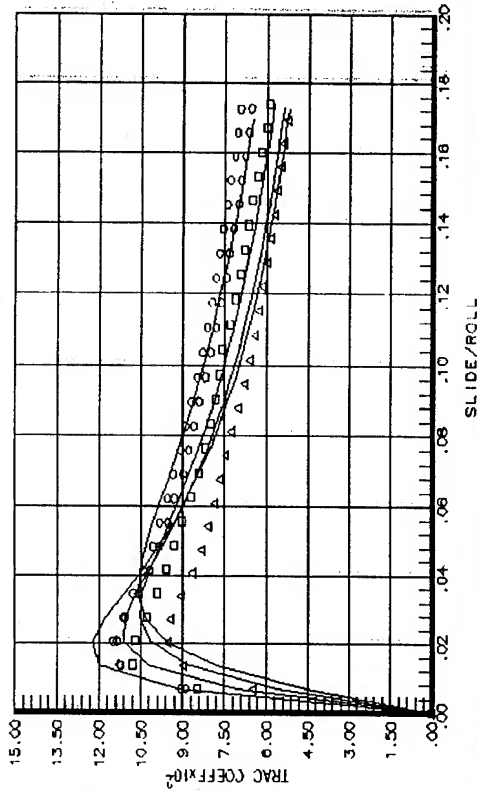
CG 66-92 Krytox 143 az
NEWTONIAN MODEL TYPE 1

og2.dat
ALFA* BETA*
38N 5.08M/S 300K #177 1.930E+02 1.700E-09 3.728E-02
91N 5.08M/S 300K #178 1.930E+02 1.700E-09 3.728E-02
178N 5.08M/S 300K #179 1.930E+02 1.700E-09 3.728E-02
307N 5.08M/S 300K #180 1.930E+02 1.700E-09 3.728E-02



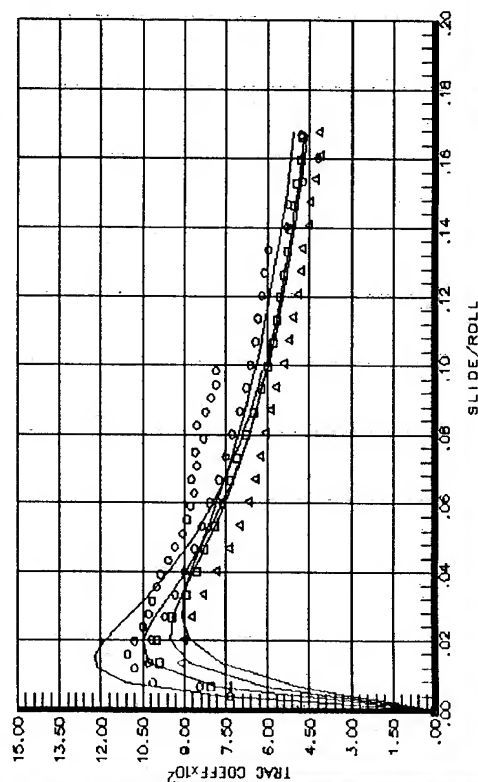
CG 66-92 Krytox 143 az
NEWTONIAN MODEL TYPE 1

og2.dat
ALFA* BETA*
38N 10.17M/S 300K #182 1.479E+02 1.700E-09 2.753E-02
91N 10.17M/S 300K #183 1.479E+02 1.700E-09 2.753E-02
178N 10.17M/S 300K #184 1.479E+02 1.700E-09 2.753E-02
307N 10.17M/S 300K #185 1.479E+02 1.700E-09 2.753E-02



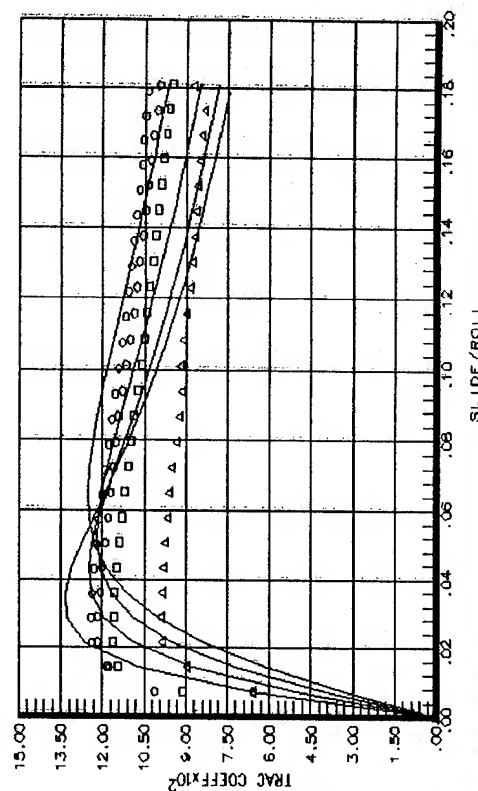
CG 66-92 Krytox 143 az
NEWTONIAN MODEL TYPE 1

og4.dat
ALFA* BETA*
38N 20.25M/S 300K #187 8.000E+01 1.700E-09 2.301E-02
91N 20.25M/S 300K #188 8.000E+01 1.700E-09 2.301E-02
178N 20.25M/S 300K #189 8.000E+01 1.700E-09 2.301E-02
307N 20.25M/S 300K #190 8.000E+01 1.700E-09 2.301E-02



CG 66-92 Krytox 143 az
NEWTONIAN MODEL TYPE 1

og8.dat
ALFA* BETA*
38N 5.08M/S 311K # 2 1.138E+02 1.700E-09 4.244E-02
91N 5.08M/S 311K # 3 1.138E+02 1.700E-09 4.244E-02
178N 5.08M/S 311K # 4 1.138E+02 1.700E-09 4.244E-02
307N 5.08M/S 311K # 5 1.138E+02 1.700E-09 4.244E-02

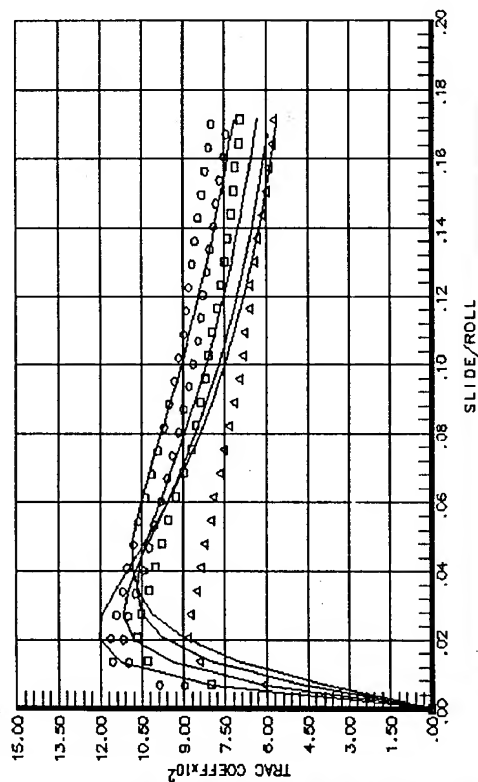


CG 66-92 Krytox 143 az

NEWTONIAN MODEL TYPE 1 az og7.dat

	38N	91N	178N	307N
992MPa	10.17N/S	311K # 7	9.698E+01	7
1321MPa	10.17N/S	311K # 8	9.698E+01	8
1682MPa	10.17N/S	311K # 9	9.698E+01	9
1984MPa	10.17N/S	311K # 10	9.698E+01	10

	ALFA*	BETA*
992MPa	1.700E-09	2.923E-02
1321MPa	1.700E-09	2.923E-02
1682MPa	1.700E-09	2.923E-02
1984MPa	1.700E-09	2.923E-02

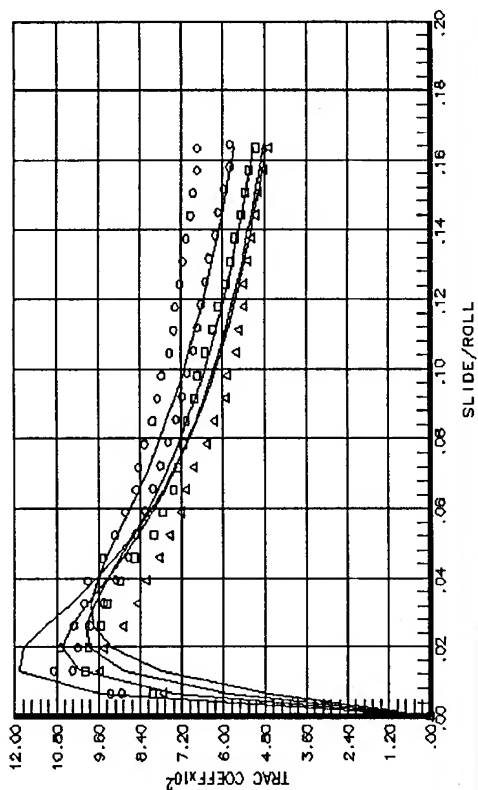


CG 66-92 Krytox 143 az

NEWTONIAN MODEL TYPE 1 az og8.dat

	38N	91N	178N	307N
992MPa	20.25M/S	311K # 12	6.878E+01	12
1321MPa	20.25M/S	311K # 13	6.878E+01	13
1682MPa	20.25M/S	311K # 14	6.878E+01	14
1984MPa	20.25M/S	311K # 15	6.878E+01	15

	ALFA*	BETA*
992MPa	1.700E-09	2.212E-02
1321MPa	1.700E-09	2.212E-02
1682MPa	1.700E-09	2.212E-02
1984MPa	1.700E-09	2.212E-02

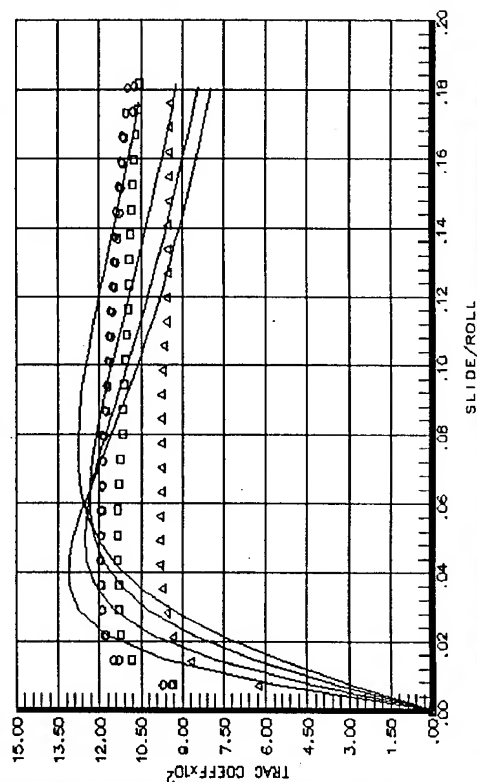


CG 66-92 Krytox 143 az

NEWTONIAN MODEL TYPE 1 az og10.dat

	38N	91N	178N	307N
992MPa	3.09N/S	339K # 37	3.896E+01	37
1321MPa	3.09N/S	339K # 38	3.896E+01	38
1682MPa	3.09N/S	339K # 39	3.896E+01	39
1984MPa	3.09N/S	339K # 40	3.896E+01	40

	ALFA*	BETA*
992MPa	1.700E-09	8.389E-02
1321MPa	1.700E-09	8.389E-02
1682MPa	1.700E-09	8.389E-02
1984MPa	1.700E-09	8.389E-02

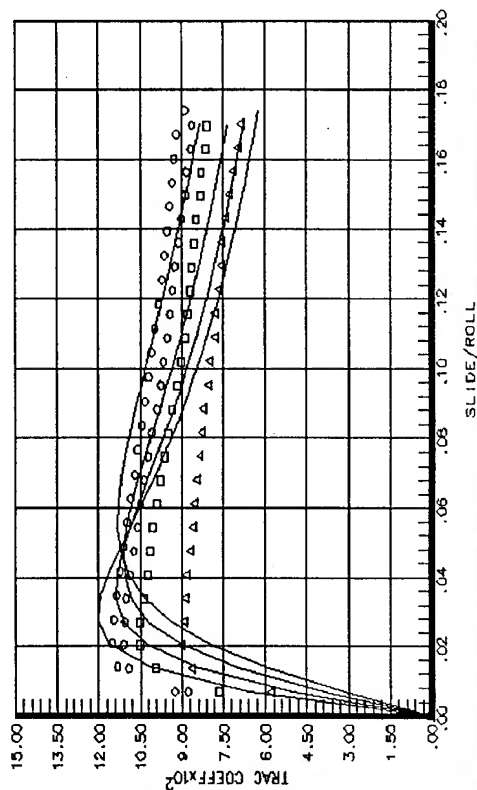


CG 66-92 Krytox 143 az

NEWTONIAN MODEL TYPE 1 az og11.dat

	38N	91N	178N	307N
991MPa	10.17M/S	339K # 42	3.801E+01	42
1321MPa	10.17M/S	339K # 43	3.801E+01	43
1682MPa	10.17M/S	339K # 44	3.801E+01	44
1984MPa	10.17M/S	339K # 45	3.801E+01	45

	ALFA*	BETA*
991MPa	1.700E-09	4.479E-02
1321MPa	1.700E-09	4.479E-02
1682MPa	1.700E-09	4.479E-02
1984MPa	1.700E-09	4.479E-02

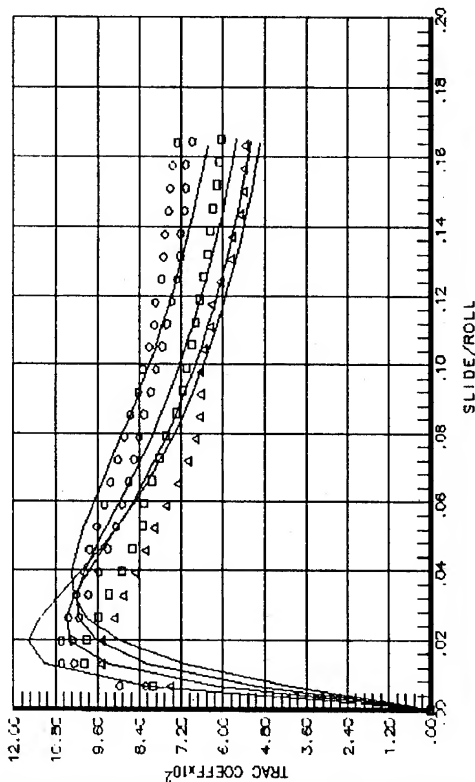


CG 66-92 Krytox 143 az

NEWTONIAN MODEL TYPE 1 az og12.dat

	3BN	91N	17BN	307N
992MPA	20.25M/S	339K # 47	3.247E+01	1.700E-09
1322MPA	20.25M/S	339K # 48	3.247E+01	1.700E-09
1652MPA	20.25M/S	339K # 49	3.247E+01	1.700E-09
1984MPA	20.25M/S	339K # 50	3.247E+01	1.700E-09

ALFA* BETA*
 1.700E-09 2.838E-02
 1.700E-09 2.838E-02
 1.700E-09 2.838E-02
 1.700E-09 2.838E-02

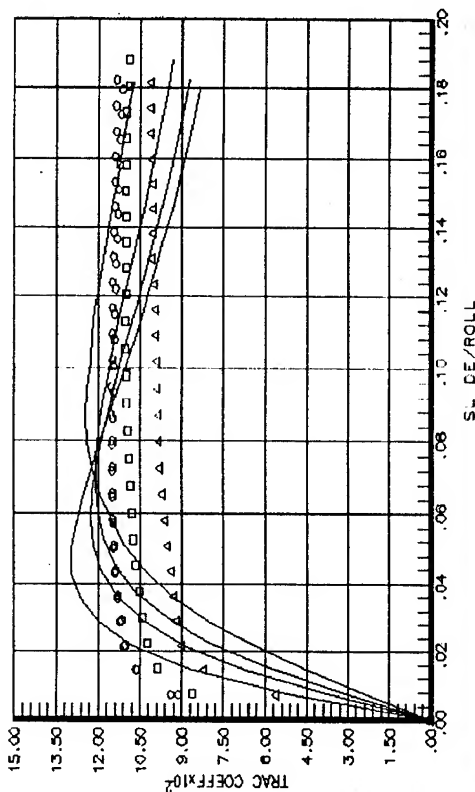


CG 66-92 Krytox 143 az

NEWTONIAN MODEL TYPE 1 az og14.dat

	3BN	91N	17BN	307N
992MPA	2.09M/S	367K # 72	1.424E+01	1.700E-09
1322MPA	2.09M/S	367K # 73	1.424E+01	1.700E-09
1652MPA	2.09M/S	367K # 74	1.424E+01	1.700E-09
1984MPA	2.09M/S	367K # 75	1.424E+01	1.700E-09

ALFA* BETA*
 1.700E-09 1.857E-01
 1.700E-09 1.857E-01
 1.700E-09 1.857E-01
 1.700E-09 1.857E-01

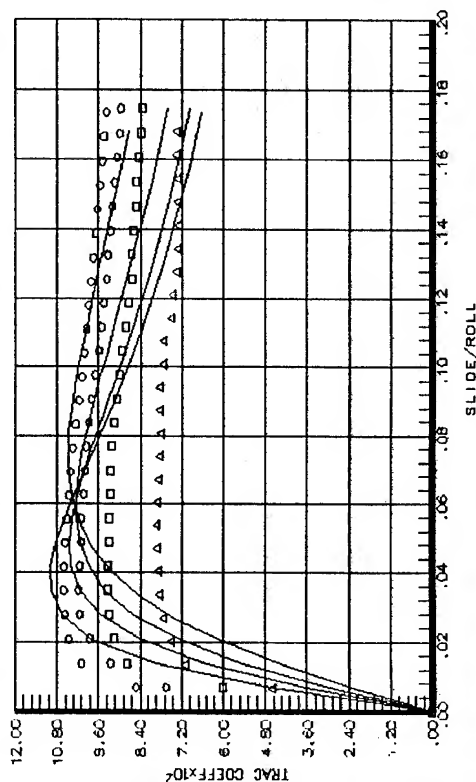


CG 66-92 Krytox 143 az

NEWTONIAN MODEL TYPE 1 az og16.dat

	3BN	91N	17BN	307N
991MPA	10.17M/S	367K # 77	1.133E+01	1.700E-09
1322MPA	10.17M/S	367K # 78	1.133E+01	1.700E-09
1652MPA	10.17M/S	367K # 79	1.133E+01	1.700E-09
1984MPA	10.17M/S	367K # 80	1.133E+01	1.700E-09

ALFA* BETA*
 1.700E-09 7.719E-02
 1.700E-09 7.719E-02
 1.700E-09 7.719E-02
 1.700E-09 7.719E-02

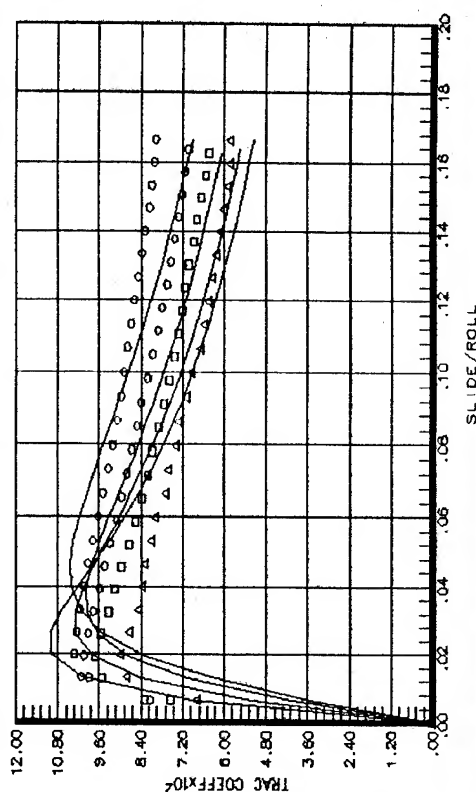


CG 66-92 Krytox 143 az

NEWTONIAN MODEL TYPE 1 az og19.dat

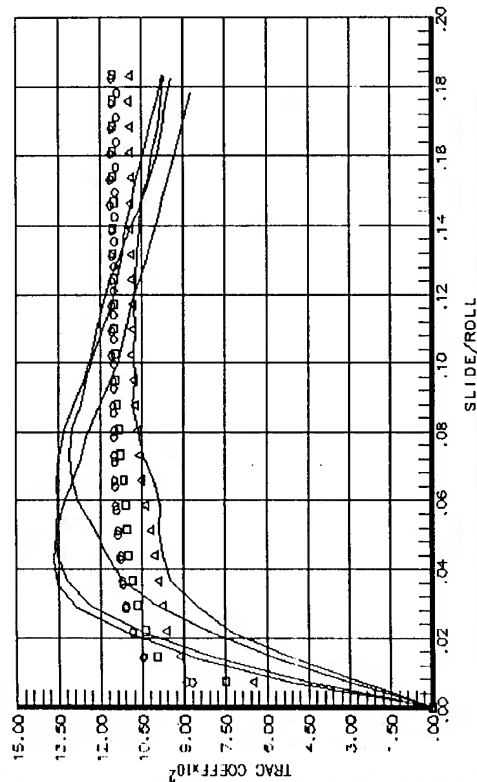
	3BN	91N	17BN	307N
988MPA	20.25M/S	367K # 82	1.408E+01	1.700E-09
1322MPA	20.25M/S	367K # 83	1.408E+01	1.700E-09
1652MPA	20.25M/S	367K # 84	1.408E+01	1.700E-09
1984MPA	20.25M/S	367K # 85	1.408E+01	1.700E-09

ALFA* BETA*
 1.700E-09 4.580E-02
 1.700E-09 4.580E-02
 1.700E-09 4.580E-02
 1.700E-09 4.580E-02



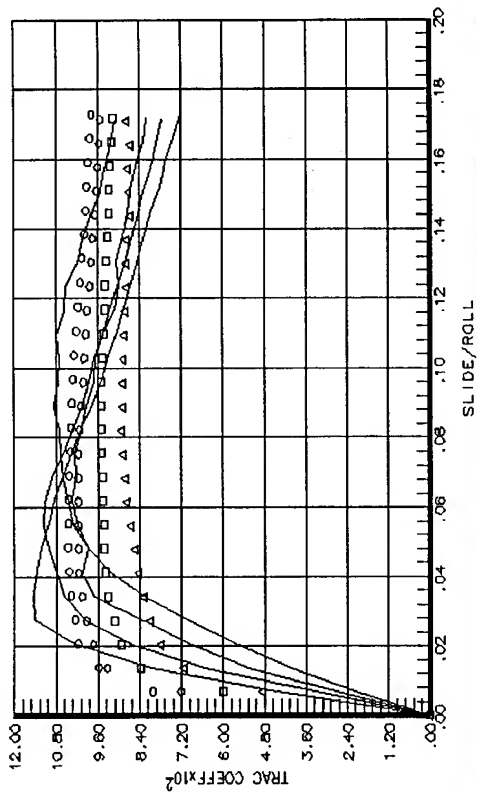
CG 66-92 Krytox 143 az
NEWTONIAN MODEL TYPE 1

38N 5.09M/S 394K #107 8.728E+00 1.700E-09 3.136E-01
91N 5.09M/S 394K #108 8.728E+00 1.700E-09 3.136E-01
178N 5.09M/S 394K #109 8.728E+00 1.700E-09 3.136E-01
307N 5.09M/S 394K #110 8.728E+00 1.700E-09 3.136E-01



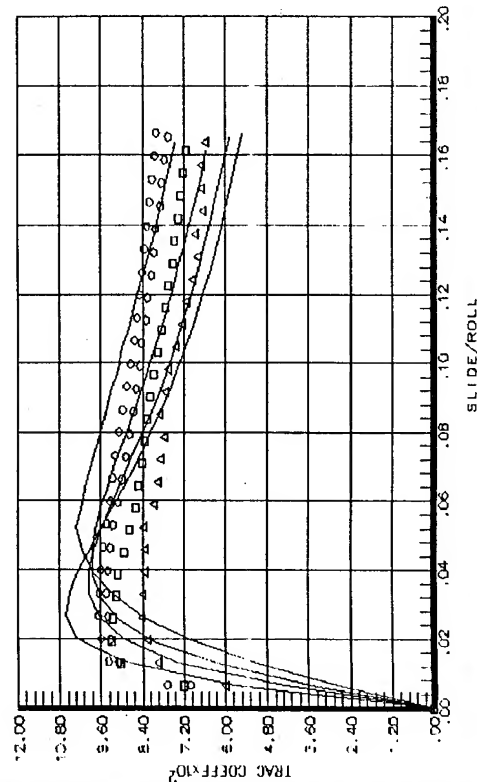
CG 66-92 Krytox 143 az
NEWTONIAN MODEL TYPE 1

38N 10.17M/S 394K #112 5.762E+00 1.700E-09 1.413E-01
91N 10.17M/S 394K #113 5.762E+00 1.700E-09 1.413E-01
178N 10.17M/S 394K #114 5.762E+00 1.700E-09 1.413E-01
307N 10.17M/S 394K #115 5.762E+00 1.700E-09 1.413E-01



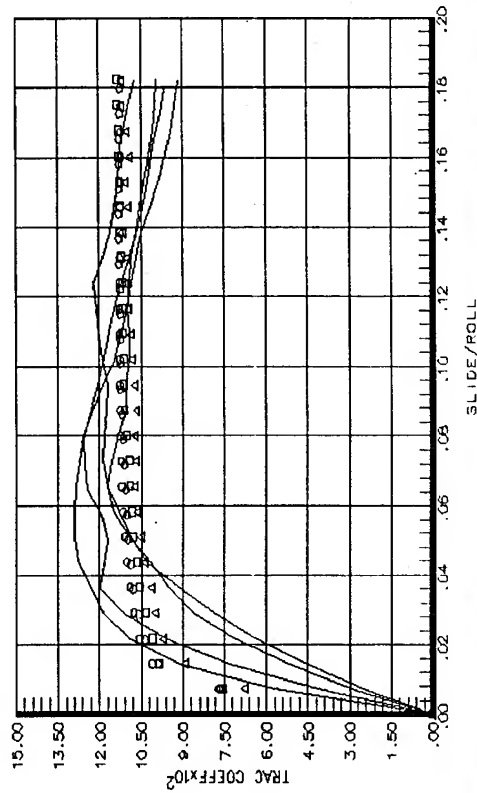
CG 66-92 Krytox 143 az
NEWTONIAN MODEL TYPE 1

38N 20.25M/S 394K #117 5.844E+00 1.700E-09 7.372E-02
91N 20.25M/S 394K #118 5.844E+00 1.700E-09 7.372E-02
178N 20.25M/S 394K #119 5.844E+00 1.700E-09 7.372E-02
307N 20.25M/S 394K #120 5.844E+00 1.700E-09 7.372E-02



CG 66-92 Krytox 143 az
NEWTONIAN MODEL TYPE 1

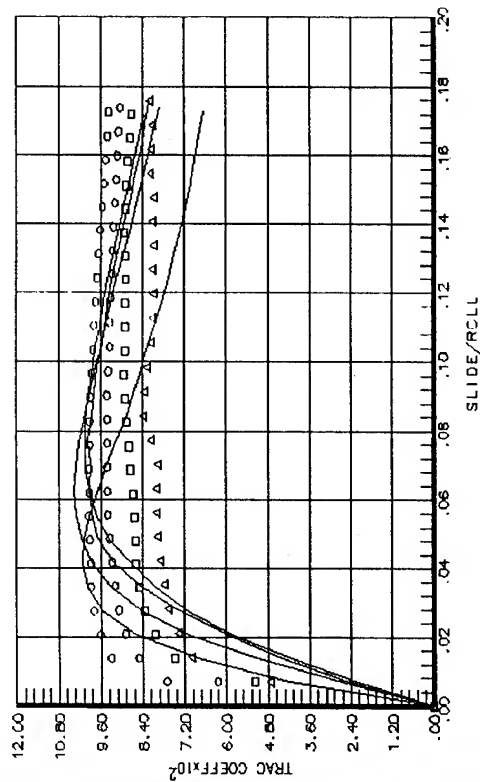
38N 5.09M/S 422K #142 2.818E+00 1.700E-09 4.536E-01
91N 5.09M/S 422K #143 2.818E+00 1.700E-09 4.536E-01
178N 5.09M/S 422K #144 2.818E+00 1.700E-09 4.536E-01
307N 5.09M/S 422K #145 2.818E+00 1.700E-09 4.536E-01



TRACITION MODELING

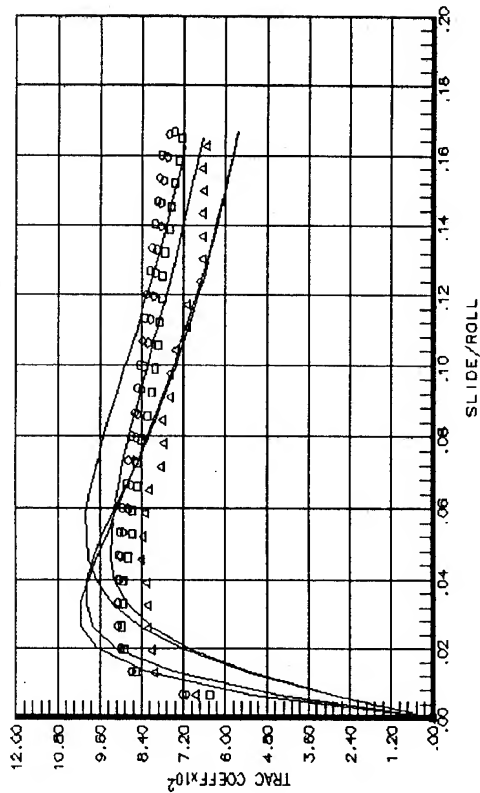
CG 66-92 Krytox 143 az
NEWTONIAN MODEL TYPE 1 og23.dat

	38N	91N	176N	307N	422K #147	422K #148	422K #149	422K #150	ALFA*	XMU*	BETA*
Δ	991MPa	10.17M/S	10.17M/S	10.17M/S	2.013E+00	2.013E+00	2.013E+00	2.013E+00	1.700E-09	2.903E+00	1.273E-01
□	1222MPa	10.17M/S	10.17M/S	10.17M/S	2.013E+00	2.013E+00	2.013E+00	2.013E+00	1.700E-09	2.903E+00	1.273E-01
○	1552MPa	10.17M/S	10.17M/S	10.17M/S	2.013E+00	2.013E+00	2.013E+00	2.013E+00	1.700E-09	2.903E+00	1.273E-01
◊	1984MPa	10.17M/S	10.17M/S	10.17M/S	2.013E+00	2.013E+00	2.013E+00	2.013E+00	1.700E-09	2.903E+00	1.273E-01



CG 66-92 Krytox 143 az
NEWTONIAN MODEL TYPE 1 og24.dat

	38N	91N	176N	307N	422K #152	422K #153	422K #154	422K #155	ALFA*	XMU*	BETA*
Δ	991MPa	20.25M/S	20.25M/S	20.25M/S	2.903E+00	2.903E+00	2.903E+00	2.903E+00	1.700E-09	2.903E+00	1.273E-01
□	1222MPa	20.25M/S	20.25M/S	20.25M/S	2.903E+00	2.903E+00	2.903E+00	2.903E+00	1.700E-09	2.903E+00	1.273E-01
○	1552MPa	20.25M/S	20.25M/S	20.25M/S	2.903E+00	2.903E+00	2.903E+00	2.903E+00	1.700E-09	2.903E+00	1.273E-01
◊	1984MPa	20.25M/S	20.25M/S	20.25M/S	2.903E+00	2.903E+00	2.903E+00	2.903E+00	1.700E-09	2.903E+00	1.273E-01



5. Traction Data Set D: 78-80 Fomblin Z04 Base

Data set name: BZ 78-80 Fomblin Z04 base fluid
 Rolling radii [Disks 1 & 2] (in): 0.75 0.75
 Crown radii [Disks 1 & 2] (in): 0.76 0.76

Number of data sets found = 244

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
1	80.00	2.70	7259.00	8019.00	7639.00	100	78-80H08 #1
2	80.00	9.16	7259.00	8019.00	7639.00	100	78-80H08 #2
3	80.00	21.73	7259.00	8019.00	7639.00	100	78-80H08 #3
4	80.00	42.39	7259.00	8019.00	7639.00	100	78-80H08 #4
5	80.00	73.27	7259.00	8019.00	7639.00	100	78-80H08 #5
6	80.00	2.70	9688.00	10708.00	10198.00	100	78-80H08 #6
7	80.00	9.16	9688.00	10708.00	10198.00	100	78-80H08 #7
8	80.00	21.73	9688.00	10708.00	10198.00	100	78-80H08 #8
9	80.00	42.39	9688.00	10708.00	10198.00	100	78-80H08 #9
10	80.00	73.27	9688.00	10708.00	10198.00	100	78-80H08 #10
11	100.00	2.70	7259.00	8019.00	7639.00	100	78-80H10 #1
12	100.00	9.16	7259.00	8019.00	7639.00	100	78-80H10 #2
13	100.00	21.73	7259.00	8019.00	7639.00	100	78-80H10 #3
14	100.00	42.39	7259.00	8019.00	7639.00	100	78-80H10 #4
15	100.00	73.27	7259.00	8019.00	7639.00	100	78-80H10 #5
16	100.00	2.70	9688.00	10708.00	10198.00	100	78-80H10 #6
17	100.00	9.16	9688.00	10708.00	10198.00	100	78-80H10 #7
18	100.00	21.73	9688.00	10708.00	10198.00	100	78-80H10 #8
19	100.00	42.39	9688.00	10708.00	10198.00	100	78-80H10 #9
20	100.00	73.27	9688.00	10708.00	10198.00	100	78-80H10 #10
21	150.00	2.70	7259.00	8019.00	7639.00	100	78-80H15 #1
22	150.00	9.16	7259.00	8019.00	7639.00	100	78-80H15 #2
23	150.00	21.73	7259.00	8019.00	7639.00	100	78-80H15 #3
24	150.00	42.39	7259.00	8019.00	7639.00	100	78-80H15 #4
25	150.00	73.27	7259.00	8019.00	7639.00	100	78-80H15 #5
26	150.00	2.70	9688.00	10708.00	10198.00	100	78-80H15 #6
27	150.00	9.16	9688.00	10708.00	10198.00	100	78-80H15 #7
28	150.00	21.73	9688.00	10708.00	10198.00	100	78-80H15 #8
29	150.00	42.39	9688.00	10708.00	10198.00	100	78-80H15 #9
30	150.00	73.27	9688.00	10708.00	10198.00	100	78-80H15 #10
31	200.00	2.70	7259.00	8019.00	7639.00	100	78-80H20 #1
32	200.00	9.16	7259.00	8019.00	7639.00	100	78-80H20 #2
33	200.00	21.73	7259.00	8019.00	7639.00	100	78-80H20 #3
34	200.00	42.39	7259.00	8019.00	7639.00	100	78-80H20 #4
35	200.00	73.27	7259.00	8019.00	7639.00	100	78-80H20 #5
36	200.00	2.70	9688.00	10708.00	10198.00	100	78-80H20 #6
37	200.00	9.16	9688.00	10708.00	10198.00	100	78-80H20 #7
38	200.00	21.73	9688.00	10708.00	10198.00	100	78-80H20 #8
39	200.00	42.39	9688.00	10708.00	10198.00	100	78-80H20 #9
40	200.00	73.27	9688.00	10708.00	10198.00	100	78-80H20 #10
41	250.00	2.70	7259.00	8019.00	7639.00	100	78-80H25 #1
42	250.00	9.16	7259.00	8019.00	7639.00	100	78-80H25 #2
43	250.00	21.73	7259.00	8019.00	7639.00	100	78-80H25 #3
44	250.00	42.39	7259.00	8019.00	7639.00	100	78-80H25 #4
45	250.00	73.27	7259.00	8019.00	7639.00	100	78-80H25 #5
46	250.00	2.70	9688.00	10708.00	10198.00	100	78-80H25 #6
47	250.00	9.16	9688.00	10708.00	10198.00	100	78-80H25 #7
48	250.00	21.73	9688.00	10708.00	10198.00	100	78-80H25 #8
49	250.00	42.39	9688.00	10708.00	10198.00	100	78-80H25 #9
50	250.00	73.27	9688.00	10708.00	10198.00	100	78-80H25 #10

Data set: BZ 78-80 Fomblin Z04 base fluidcontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
51	250.00	2.70	10708.00	9688.00	10198.00	100	78-80H25 #11
52	250.00	9.16	10708.00	9688.00	10198.00	100	78-80H25 #12
53	250.00	21.73	10708.00	9688.00	10198.00	100	78-80H25 #13
54	250.00	42.39	10708.00	9688.00	10198.00	100	78-80H25 #14
55	250.00	73.27	10708.00	9688.00	10198.00	100	78-80H25 #15
56	300.00	2.70	7259.00	8019.00	7639.00	100	78-80H30 #1
57	300.00	9.16	7259.00	8019.00	7639.00	100	78-80H30 #2
58	300.00	21.73	7259.00	8019.00	7639.00	100	78-80H30 #3
59	300.00	42.39	7259.00	8019.00	7639.00	100	78-80H30 #4
60	300.00	73.27	7259.00	8019.00	7639.00	100	78-80H30 #5
61	300.00	2.70	9688.00	10708.00	10198.00	100	78-80H30 #6
62	300.00	9.16	9688.00	10708.00	10198.00	100	78-80H30 #7
63	300.00	21.73	9688.00	10708.00	10198.00	100	78-80H30 #8
64	300.00	42.39	9688.00	10708.00	10198.00	24	78-80H30 #9
65	80.00	2.70	72.00	80.00	76.00	100	78-80L08 #1
66	80.00	9.16	72.00	80.00	76.00	100	78-80L08 #2
67	80.00	21.73	72.00	80.00	76.00	100	78-80L08 #3
68	80.00	42.39	72.00	80.00	76.00	100	78-80L08 #4
69	80.00	73.27	72.00	80.00	76.00	100	78-80L08 #5
70	80.00	2.70	144.00	160.00	152.00	100	78-80L08 #6
71	80.00	9.16	144.00	160.00	152.00	100	78-80L08 #7
72	80.00	21.73	144.00	160.00	152.00	100	78-80L08 #8
73	80.00	42.39	144.00	160.00	152.00	100	78-80L08 #9
74	80.00	73.27	144.00	160.00	152.00	100	78-80L08 #10
75	80.00	2.70	290.00	320.00	305.00	100	78-80L08 #11
76	80.00	9.16	290.00	320.00	305.00	100	78-80L08 #12
77	80.00	21.73	290.00	320.00	305.00	100	78-80L08 #13
78	80.00	42.39	290.00	320.00	305.00	100	78-80L08 #14
79	80.00	73.27	290.00	320.00	305.00	100	78-80L08 #15
80	100.00	2.70	72.00	80.00	76.00	100	78-80L10 #1
81	100.00	9.16	72.00	80.00	76.00	100	78-80L10 #2
82	100.00	21.73	72.00	80.00	76.00	100	78-80L10 #3
83	100.00	42.39	72.00	80.00	76.00	100	78-80L10 #4
84	100.00	73.27	72.00	80.00	76.00	100	78-80L10 #5
85	100.00	2.70	144.00	160.00	152.00	100	78-80L10 #6
86	100.00	9.16	144.00	160.00	152.00	100	78-80L10 #7
87	100.00	21.73	144.00	160.00	152.00	100	78-80L10 #8
88	100.00	42.39	144.00	160.00	152.00	100	78-80L10 #9
89	100.00	73.27	144.00	160.00	152.00	100	78-80L10 #10
90	100.00	2.70	290.00	320.00	305.00	100	78-80L10 #11
91	100.00	9.16	290.00	320.00	305.00	100	78-80L10 #12
92	100.00	21.73	290.00	320.00	305.00	100	78-80L10 #13
93	100.00	42.39	290.00	320.00	305.00	100	78-80L10 #14
94	100.00	73.27	290.00	320.00	305.00	100	78-80L10 #15
95	150.00	2.70	72.00	80.00	76.00	100	78-80L15 #1
96	150.00	9.16	72.00	80.00	76.00	100	78-80L15 #2
97	150.00	21.73	72.00	80.00	76.00	100	78-80L15 #3
98	150.00	42.39	72.00	80.00	76.00	100	78-80L15 #4
99	150.00	73.27	72.00	80.00	76.00	100	78-80L15 #5
100	150.00	2.70	144.00	160.00	152.00	100	78-80L15 #6
101	150.00	9.16	144.00	160.00	152.00	100	78-80L15 #7
102	150.00	21.73	144.00	160.00	152.00	100	78-80L15 #8
103	150.00	42.39	144.00	160.00	152.00	100	78-80L15 #9
104	150.00	73.27	144.00	160.00	152.00	100	78-80L15 #10
105	150.00	2.70	290.00	320.00	305.00	100	78-80L15 #11
106	150.00	9.16	290.00	320.00	305.00	100	78-80L15 #12
107	150.00	21.73	290.00	320.00	305.00	100	78-80L15 #13
108	150.00	42.39	290.00	320.00	305.00	100	78-80L15 #14
109	150.00	73.27	290.00	320.00	305.00	100	78-80L15 #15
110	200.00	2.70	72.00	80.00	76.00	100	78-80L20 #1
111	200.00	9.16	72.00	80.00	76.00	100	78-80L20 #2
112	200.00	21.73	72.00	80.00	76.00	100	78-80L20 #3
113	200.00	42.39	72.00	80.00	76.00	100	78-80L20 #4
114	200.00	73.27	72.00	80.00	76.00	100	78-80L20 #5
115	200.00	2.70	144.00	160.00	152.00	100	78-80L20 #6
116	200.00	9.16	144.00	160.00	152.00	100	78-80L20 #7
117	200.00	21.73	144.00	160.00	152.00	100	78-80L20 #8
118	200.00	42.39	144.00	160.00	152.00	100	78-80L20 #9
119	200.00	73.27	144.00	160.00	152.00	100	78-80L20 #10
120	200.00	2.70	290.00	320.00	305.00	100	78-80L20 #11

Data set: BZ 78-80 Fomblin Z04 base fluidcontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
121	200.00	9.16	290.00	320.00	305.00	100	78-80L20 #12
122	200.00	21.73	290.00	320.00	305.00	100	78-80L20 #13
123	200.00	42.39	290.00	320.00	305.00	100	78-80L20 #14
124	200.00	73.27	290.00	320.00	305.00	100	78-80L20 #15
125	250.00	2.70	72.00	80.00	76.00	100	78-80L25 #1
126	250.00	9.16	72.00	80.00	76.00	100	78-80L25 #2
127	250.00	21.73	72.00	80.00	76.00	100	78-80L25 #3
128	250.00	42.39	72.00	80.00	76.00	100	78-80L25 #4
129	250.00	73.27	72.00	80.00	76.00	100	78-80L25 #5
130	250.00	2.70	144.00	160.00	152.00	100	78-80L25 #6
131	250.00	9.16	144.00	160.00	152.00	100	78-80L25 #7
132	250.00	21.73	144.00	160.00	152.00	100	78-80L25 #8
133	250.00	42.39	144.00	160.00	152.00	100	78-80L25 #9
134	250.00	73.27	144.00	160.00	152.00	100	78-80L25 #10
135	250.00	2.70	290.00	320.00	305.00	100	78-80L25 #11
136	250.00	9.16	290.00	320.00	305.00	100	78-80L25 #12
137	250.00	21.73	290.00	320.00	305.00	100	78-80L25 #13
138	250.00	42.39	290.00	320.00	305.00	100	78-80L25 #14
139	250.00	73.27	290.00	320.00	305.00	100	78-80L25 #15
140	300.00	2.70	72.00	80.00	76.00	100	78-80L30 #1
141	300.00	9.16	72.00	80.00	76.00	100	78-80L30 #2
142	300.00	21.73	72.00	80.00	76.00	100	78-80L30 #3
143	300.00	42.39	72.00	80.00	76.00	100	78-80L30 #4
144	300.00	73.27	72.00	80.00	76.00	100	78-80L30 #5
145	300.00	2.70	144.00	160.00	152.00	100	78-80L30 #6
146	300.00	9.16	144.00	160.00	152.00	100	78-80L30 #7
147	300.00	21.73	144.00	160.00	152.00	100	78-80L30 #8
148	300.00	42.39	144.00	160.00	152.00	100	78-80L30 #9
149	300.00	73.27	144.00	160.00	152.00	100	78-80L30 #10
150	300.00	2.70	290.00	320.00	305.00	100	78-80L30 #11
151	300.00	9.16	290.00	320.00	305.00	100	78-80L30 #12
152	300.00	21.73	290.00	320.00	305.00	100	78-80L30 #13
153	300.00	42.39	290.00	320.00	305.00	100	78-80L30 #14
154	300.00	73.27	290.00	320.00	305.00	100	78-80L30 #15
155	80.00	2.70	1197.00	1323.00	1260.00	100	78-80M08 #1
156	80.00	9.16	1197.00	1323.00	1260.00	100	78-80M08 #2
157	80.00	21.73	1197.00	1323.00	1260.00	100	78-80M08 #3
158	80.00	42.39	1197.00	1323.00	1260.00	100	78-80M08 #4
159	80.00	73.27	1197.00	1323.00	1260.00	100	78-80M08 #5
160	80.00	2.70	2431.00	2687.00	2559.00	100	78-80M08 #6
161	80.00	9.16	2431.00	2687.00	2559.00	100	78-80M08 #7
162	80.00	21.73	2431.00	2687.00	2559.00	100	78-80M08 #8
163	80.00	42.39	2431.00	2687.00	2559.00	100	78-80M08 #9
164	80.00	73.27	2431.00	2687.00	2559.00	100	78-80M08 #10
165	80.00	2.70	4826.00	5334.00	5080.00	100	78-80M08 #11
166	80.00	9.16	4826.00	5334.00	5080.00	100	78-80M08 #12
167	80.00	21.73	4826.00	5334.00	5080.00	100	78-80M08 #13
168	80.00	42.39	4826.00	5334.00	5080.00	100	78-80M08 #14
169	80.00	73.27	4826.00	5334.00	5080.00	100	78-80M08 #15
170	100.00	2.70	1197.00	1323.00	1260.00	100	78-80M10 #1
171	100.00	9.16	1197.00	1323.00	1260.00	100	78-80M10 #2
172	100.00	21.73	1197.00	1323.00	1260.00	100	78-80M10 #3
173	100.00	42.39	1197.00	1323.00	1260.00	100	78-80M10 #4
174	100.00	73.27	1197.00	1323.00	1260.00	100	78-80M10 #5
175	100.00	2.70	2431.00	2687.00	2559.00	100	78-80M10 #6
176	100.00	9.16	2431.00	2687.00	2559.00	100	78-80M10 #7
177	100.00	21.73	2431.00	2687.00	2559.00	100	78-80M10 #8
178	100.00	42.39	2431.00	2687.00	2559.00	100	78-80M10 #9
179	100.00	73.27	2431.00	2687.00	2559.00	100	78-80M10 #10
180	100.00	2.70	4826.00	5334.00	5080.00	100	78-80M10 #11
181	100.00	9.16	4826.00	5334.00	5080.00	100	78-80M10 #12
182	100.00	21.73	4826.00	5334.00	5080.00	100	78-80M10 #13
183	100.00	42.39	4826.00	5334.00	5080.00	100	78-80M10 #14
184	100.00	73.27	4826.00	5334.00	5080.00	100	78-80M10 #15
185	150.00	2.70	1197.00	1323.00	1260.00	100	78-80M15 #1
186	150.00	9.16	1197.00	1323.00	1260.00	100	78-80M15 #2
187	150.00	21.73	1197.00	1323.00	1260.00	100	78-80M15 #3
188	150.00	42.39	1197.00	1323.00	1260.00	100	78-80M15 #4
189	150.00	73.27	1197.00	1323.00	1260.00	100	78-80M15 #5
190	150.00	2.70	2431.00	2687.00	2559.00	100	78-80M15 #6

Data set: BZ 78-80 Fomblin Z04 base fluidcontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
191	150.00	9.16	2431.00	2687.00	2559.00	100	78-80M15 #7
192	150.00	21.73	2431.00	2687.00	2559.00	100	78-80M15 #8
193	150.00	42.39	2431.00	2687.00	2559.00	100	78-80M15 #9
194	150.00	73.27	2431.00	2687.00	2559.00	100	78-80M15 #10
195	150.00	2.70	4826.00	5334.00	5080.00	100	78-80M15 #11
196	150.00	9.16	4826.00	5334.00	5080.00	100	78-80M15 #12
197	150.00	21.73	4826.00	5334.00	5080.00	100	78-80M15 #13
198	150.00	42.39	4826.00	5334.00	5080.00	100	78-80M15 #14
199	150.00	73.27	4826.00	5334.00	5080.00	100	78-80M15 #15
200	200.00	2.70	1197.00	1323.00	1260.00	100	78-80M20 #1
201	200.00	9.16	1197.00	1323.00	1260.00	100	78-80M20 #2
202	200.00	21.73	1197.00	1323.00	1260.00	100	78-80M20 #3
203	200.00	42.39	1197.00	1323.00	1260.00	100	78-80M20 #4
204	200.00	73.27	1197.00	1323.00	1260.00	100	78-80M20 #5
205	200.00	2.70	2431.00	2687.00	2559.00	100	78-80M20 #6
206	200.00	9.16	2431.00	2687.00	2559.00	100	78-80M20 #7
207	200.00	21.73	2431.00	2687.00	2559.00	100	78-80M20 #8
208	200.00	42.39	2431.00	2687.00	2559.00	100	78-80M20 #9
209	200.00	73.27	2431.00	2687.00	2559.00	100	78-80M20 #10
210	200.00	2.70	4826.00	5334.00	5080.00	100	78-80M20 #11
211	200.00	9.16	4826.00	5334.00	5080.00	100	78-80M20 #12
212	200.00	21.73	4826.00	5334.00	5080.00	100	78-80M20 #13
213	200.00	42.39	4826.00	5334.00	5080.00	100	78-80M20 #14
214	200.00	73.27	4826.00	5334.00	5080.00	100	78-80M20 #15
215	250.00	2.70	1197.00	1323.00	1260.00	100	78-80M25 #1
216	250.00	9.16	1197.00	1323.00	1260.00	100	78-80M25 #2
217	250.00	21.73	1197.00	1323.00	1260.00	100	78-80M25 #3
218	250.00	42.39	1197.00	1323.00	1260.00	100	78-80M25 #4
219	250.00	73.27	1197.00	1323.00	1260.00	100	78-80M25 #5
220	250.00	2.70	2431.00	2687.00	2559.00	100	78-80M25 #6
221	250.00	9.16	2431.00	2687.00	2559.00	100	78-80M25 #7
222	250.00	21.73	2431.00	2687.00	2559.00	100	78-80M25 #8
223	250.00	42.39	2431.00	2687.00	2559.00	100	78-80M25 #9
224	250.00	73.27	2431.00	2687.00	2559.00	100	78-80M25 #10
225	250.00	2.70	4826.00	5334.00	5080.00	100	78-80M25 #11
226	250.00	9.16	4826.00	5334.00	5080.00	100	78-80M25 #12
227	250.00	21.73	4826.00	5334.00	5080.00	100	78-80M25 #13
228	250.00	42.39	4826.00	5334.00	5080.00	100	78-80M25 #14
229	250.00	73.27	4826.00	5334.00	5080.00	100	78-80M25 #15
230	300.00	2.70	1197.00	1323.00	1260.00	100	78-80M30 #1
231	300.00	9.16	1197.00	1323.00	1260.00	100	78-80M30 #2
232	300.00	21.73	1197.00	1323.00	1260.00	100	78-80M30 #3
233	300.00	42.39	1197.00	1323.00	1260.00	100	78-80M30 #4
234	300.00	73.27	1197.00	1323.00	1260.00	100	78-80M30 #5
235	300.00	2.70	2431.00	2687.00	2559.00	100	78-80M30 #6
236	300.00	9.16	2431.00	2687.00	2559.00	100	78-80M30 #7
237	300.00	21.73	2431.00	2687.00	2559.00	100	78-80M30 #8
238	300.00	42.39	2431.00	2687.00	2559.00	100	78-80M30 #9
239	300.00	73.27	2431.00	2687.00	2559.00	100	78-80M30 #10
240	300.00	2.70	4826.00	5334.00	5080.00	100	78-80M30 #11
241	300.00	9.16	4826.00	5334.00	5080.00	100	78-80M30 #12
242	300.00	21.73	4826.00	5334.00	5080.00	100	78-80M30 #13
243	300.00	42.39	4826.00	5334.00	5080.00	100	78-80M30 #14
244	300.00	73.27	4826.00	5334.00	5080.00	100	78-80M30 #15

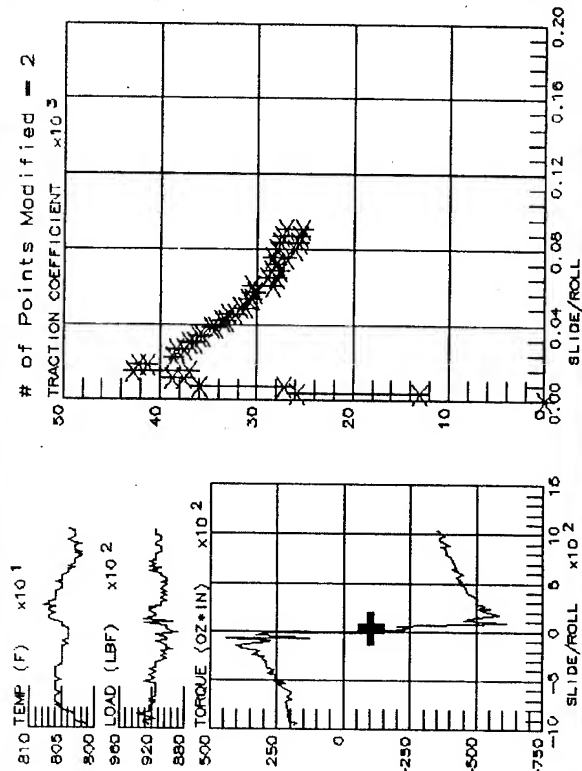
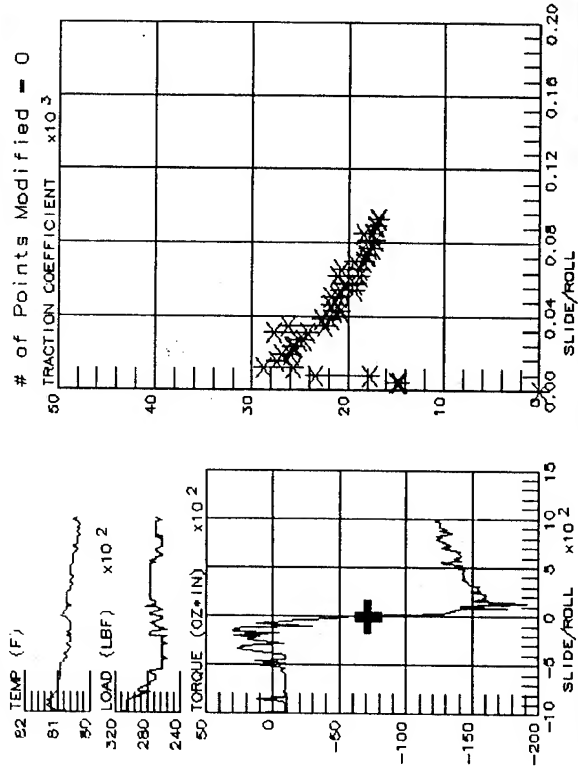
Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #
bz1.dat	80.00	2559.00	161 162 163 164
bz2.dat	80.00	5080.00	166 167 168 169
bz3.dat	80.00	7639.00	2 3 4 5
bz4.dat	80.00	10198.00	7 8 9 10
bz5.dat	100.00	2559.00	176 177 178 179
bz6.dat	100.00	5080.00	181 182 183 184
bz7.dat	100.00	7639.00	12 13 14 15
bz8.dat	100.00	10198.00	17 18 19 20
bz9.dat	150.00	2559.00	191 192 193 194
bz10.dat	150.00	5080.00	196 197 198 199
bz11.dat	150.00	7639.00	22 23 24 25
bz12.dat	150.00	10198.00	27 28 29 30
bz13.dat	200.00	2559.00	206 207 208 209
bz14.dat	200.00	5080.00	211 212 213 214
bz15.dat	200.00	7639.00	32 33 34 35
bz16.dat	200.00	10198.00	37 38 39 40
bz17.dat	250.00	2559.00	221 222 223 224
bz18.dat	250.00	5080.00	226 227 228 229
bz19.dat	250.00	7639.00	42 43 44 45
bz20.dat	250.00	10198.00	52 53 54 55
bz21.dat	300.00	2559.00	236 237 238 239
bz22.dat	300.00	5080.00	241 242 243 244
bz23.dat	300.00	7639.00	57 58 59 60
bz24.dat	300.00	10198.00	62 63 64

TRACTION DATA

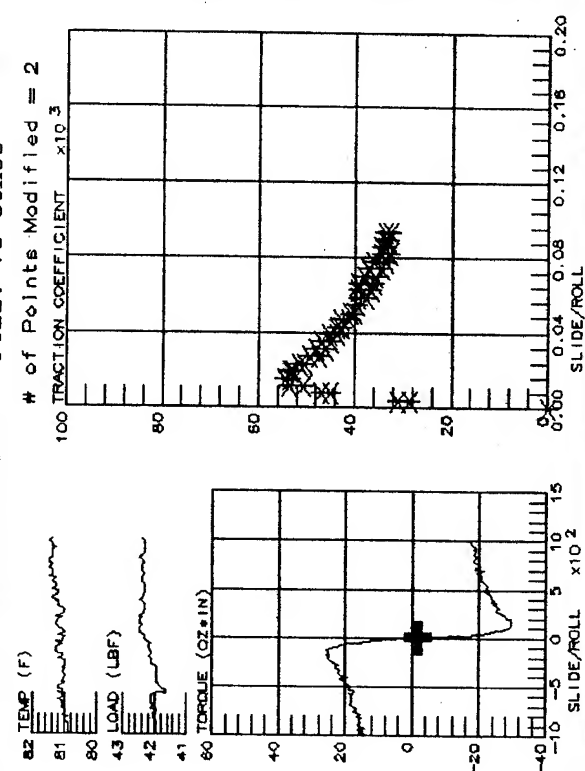
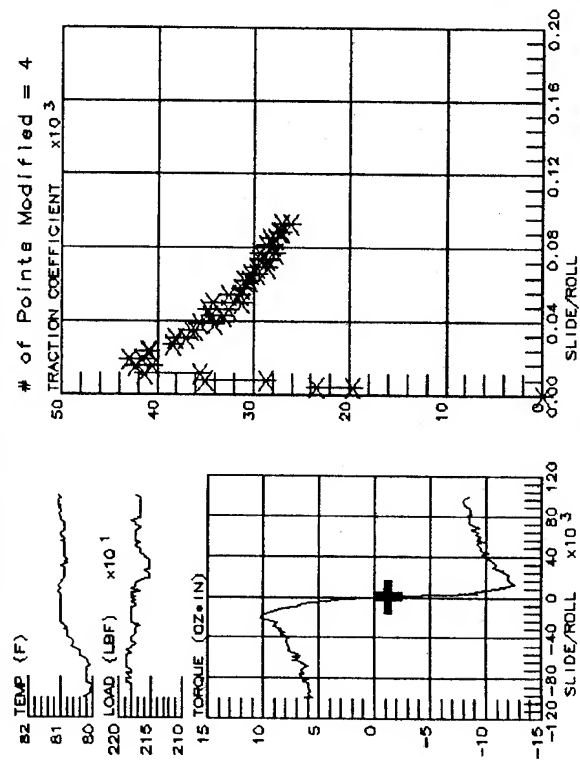
BZ 78-80 Fomblin Z04 base fluid #1
80F 3LBF 7639RPM #1

BZ 78-80 Fomblin Z04 base fluid #2
80F 10LBF 7639RPM #2



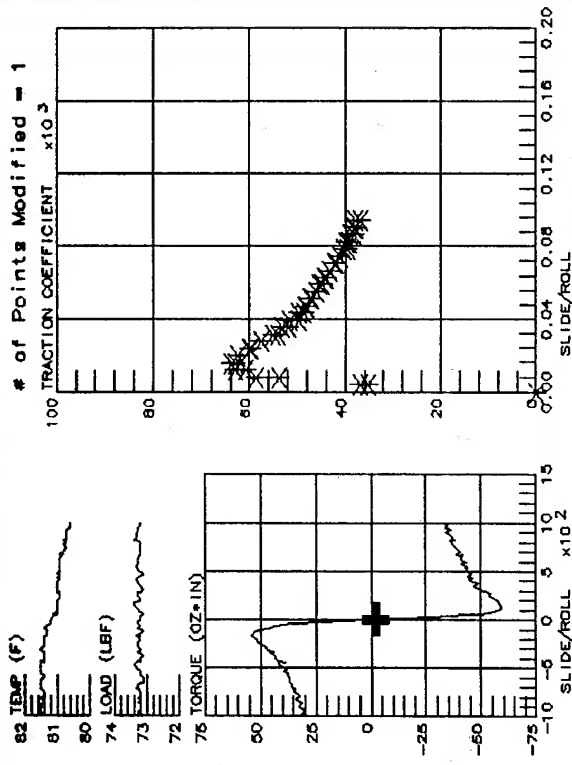
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80F 22LBF 7639RPM #3

BZ 78-80 Fomblin Z04 base fluid #4
80F 43LBF 7639RPM #4

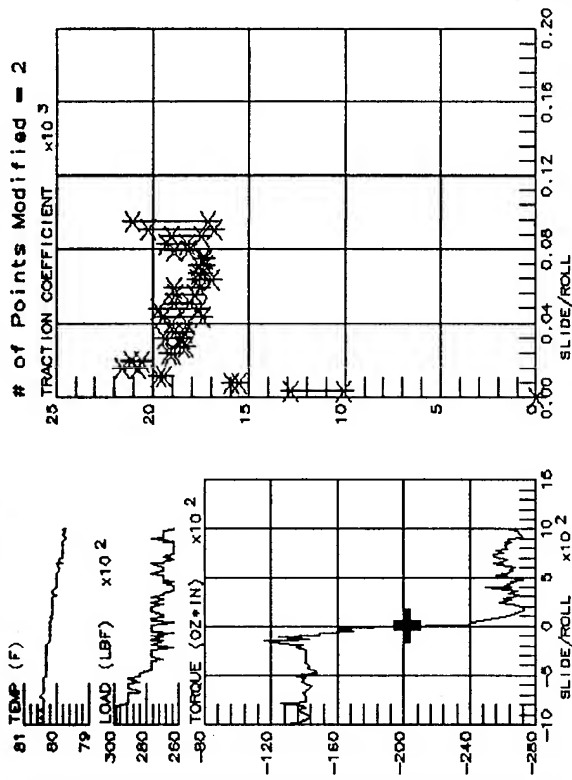


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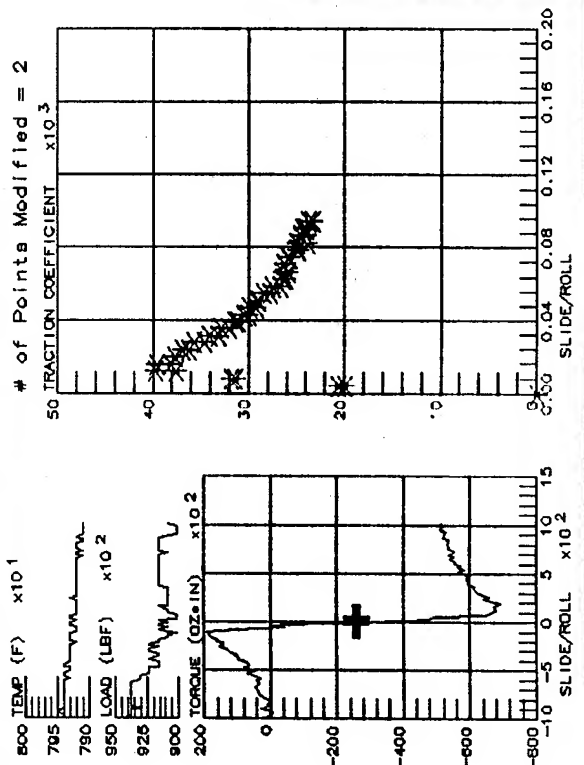
BZ 78-80 Fomblin Z04 base fluid #6
80F 74LBF 7639RPM #5



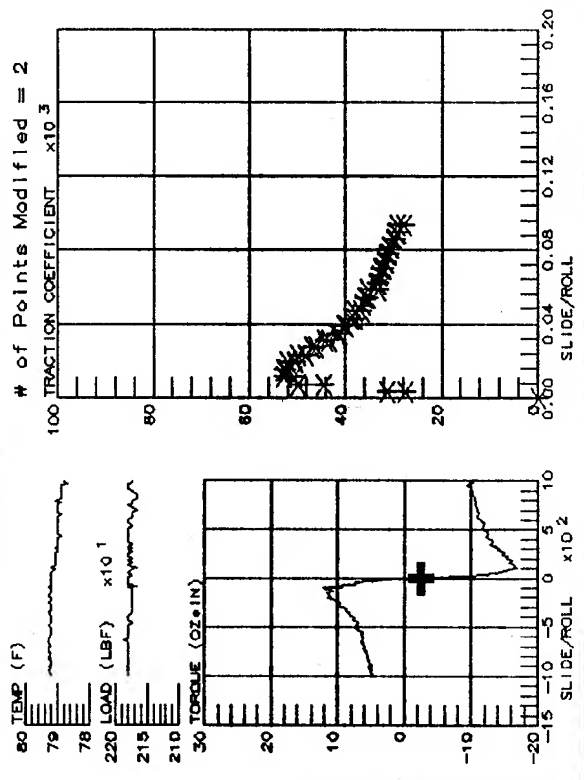
BZ 78-80 Fomblin Z04 base fluid #8
80F 3LBF 10198RPM #6



BZ 78-80 Fomblin Z04 base fluid #7
80F 10LBF 10198RPM #7



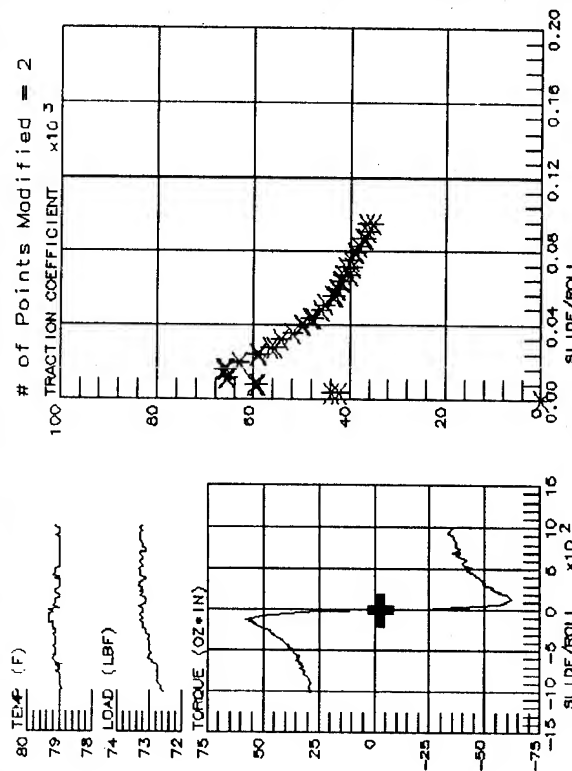
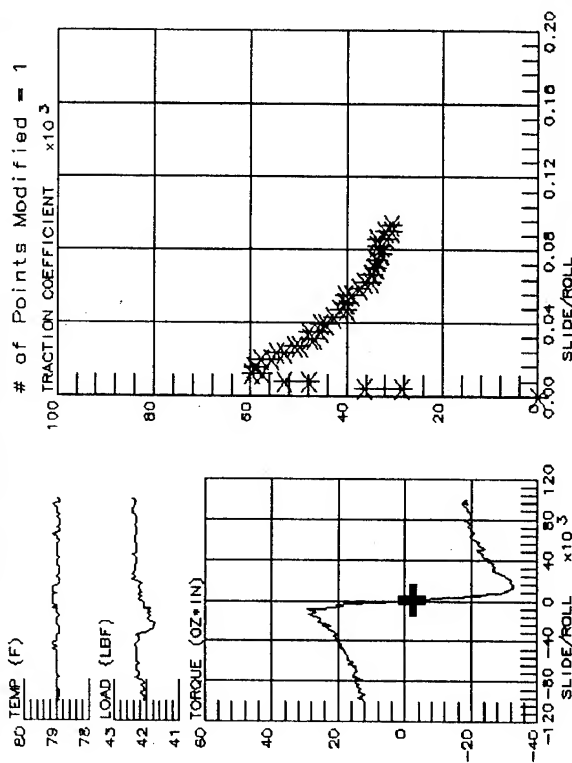
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80F 22LBF 10198RPM #8



TRACTION DATA

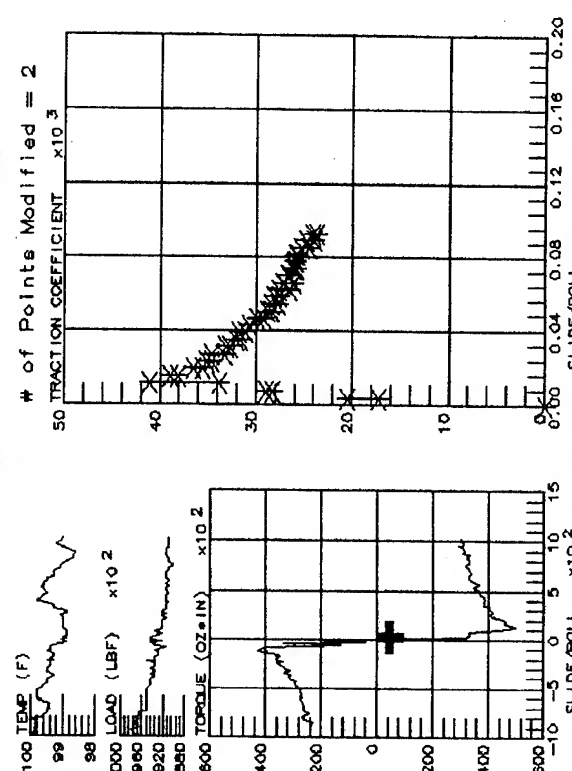
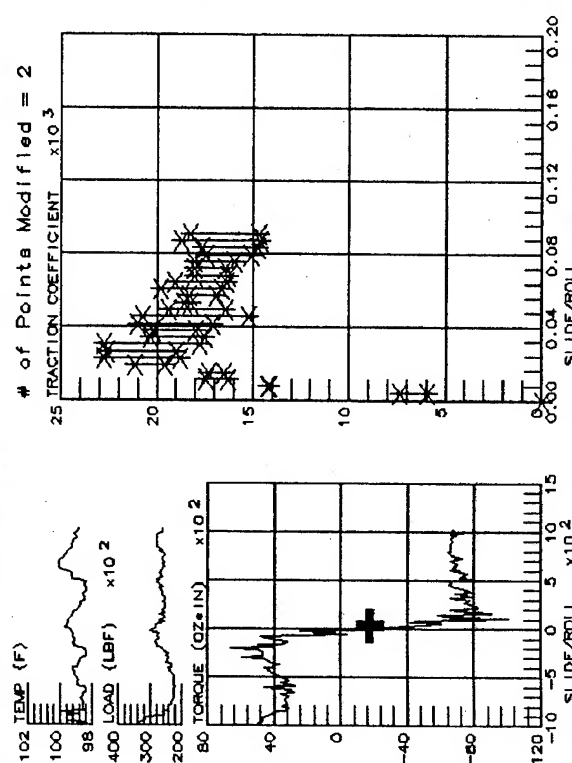
BZ 78-80 Fomblin Z04 base fluid
80F 43LBF 10198RPM #9
FILE: 78-80H08

BZ 78-80 Fomblin Z04 base fluid
80F 74LBF 10198RPM #10
FILE: 78-80H08

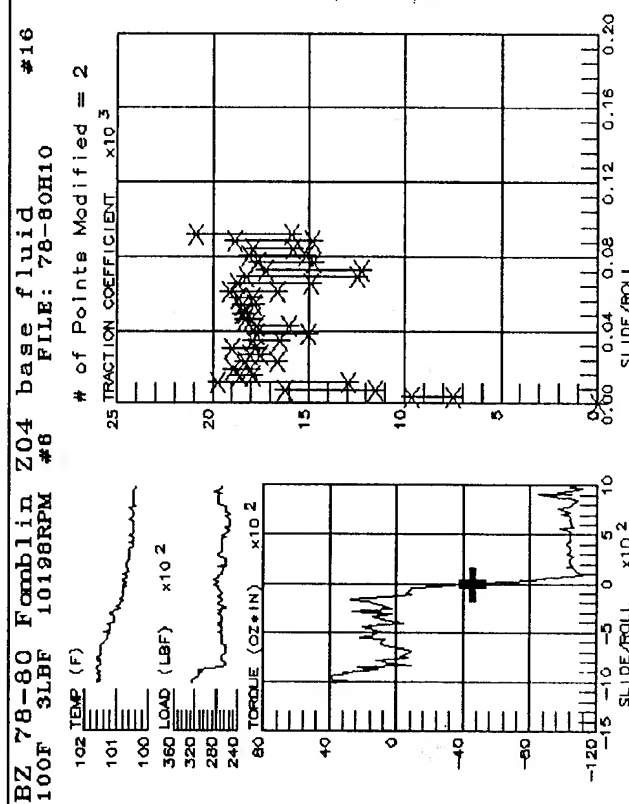
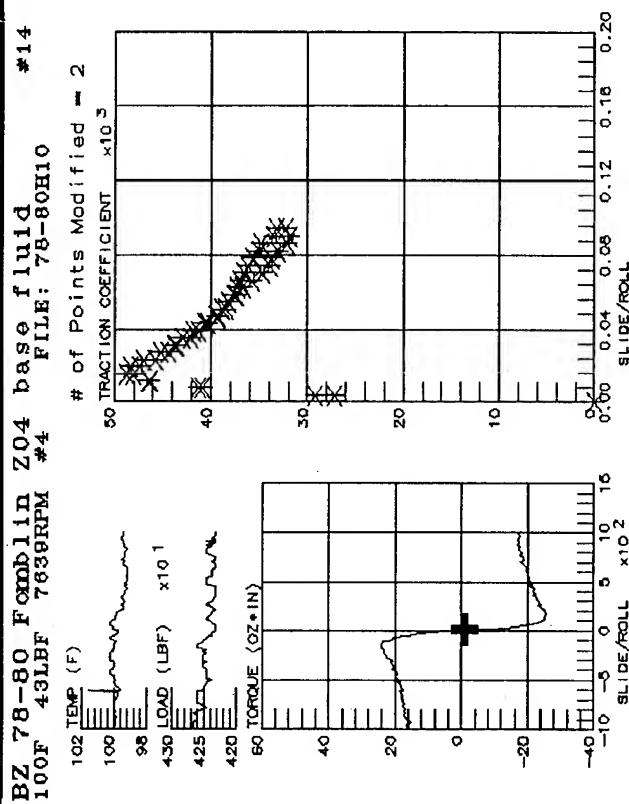
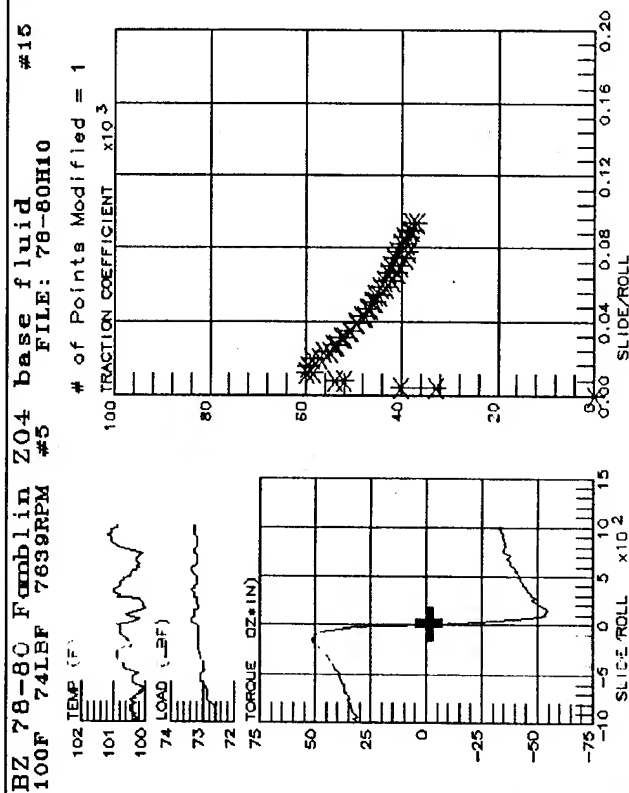
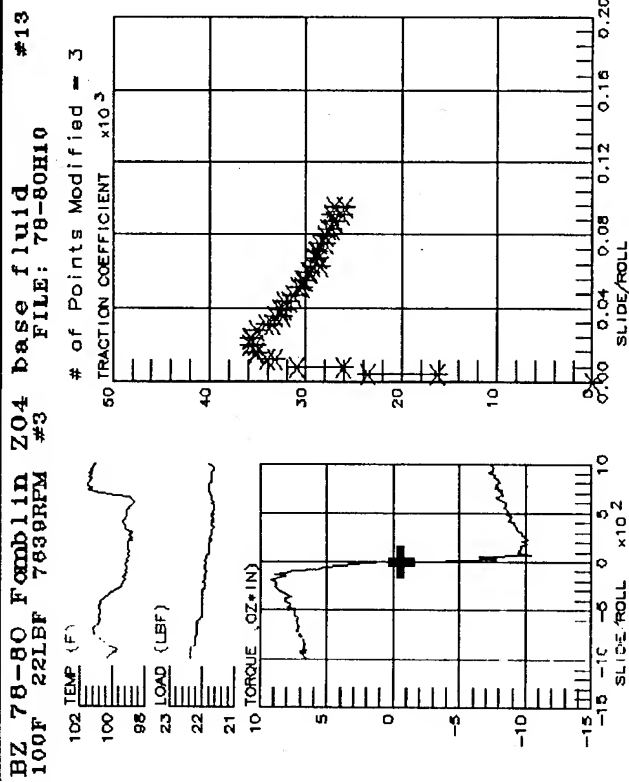


BZ 78-80 Fomblin Z04 base fluid
100F 3LBF 7639RPM #11
FILE: 78-80H10

BZ 78-80 Fomblin Z04 base fluid
100F 10LBF 7639RPM #12
FILE: 78-80H10

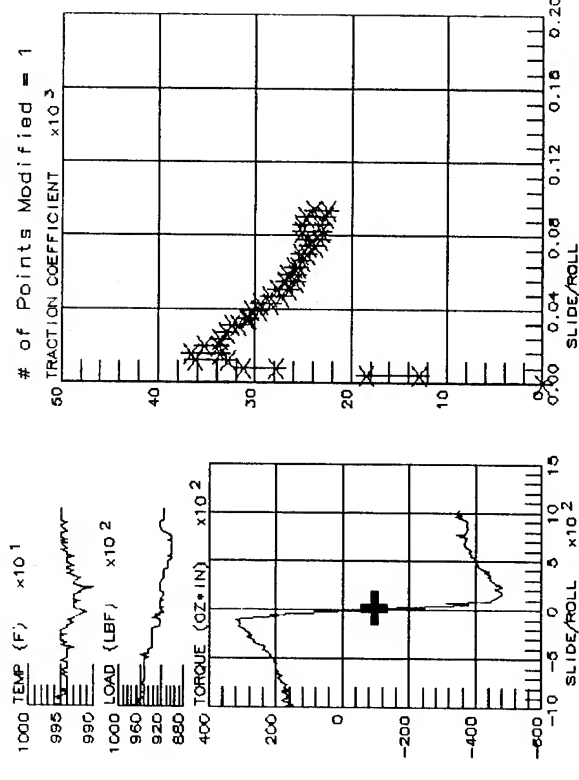


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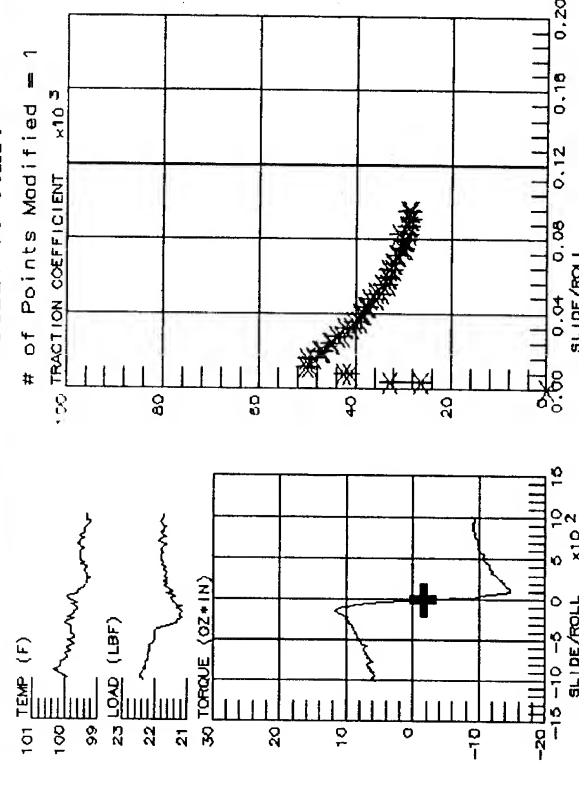


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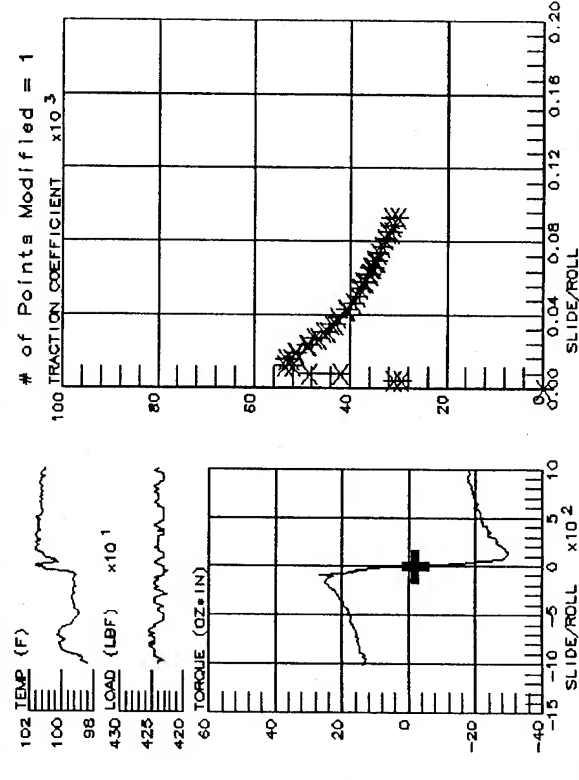
BZ 78-80 Fomblin Z04 base fluid #17
100F 10LBF 10198RPM #7 FILE: 78-80H10



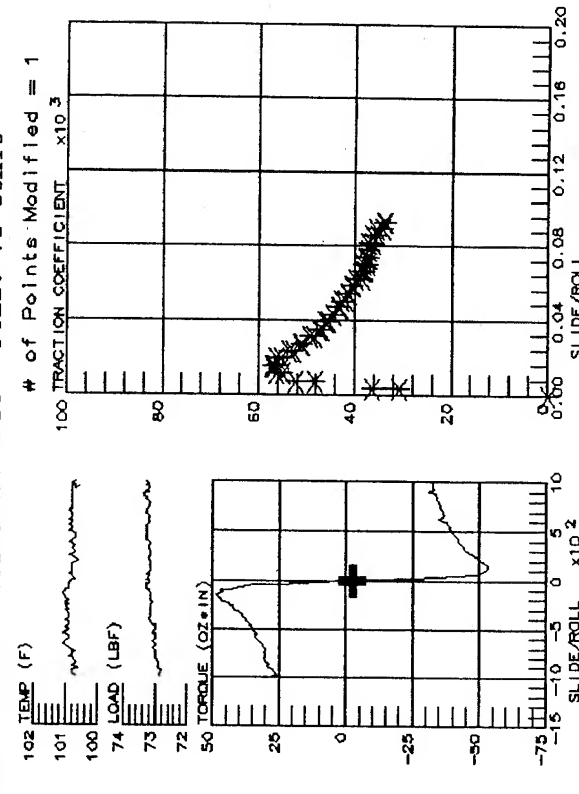
BZ 78-80 Fomblin Z04 base fluid #18
100F 22LBF 10198RPM #8 FILE: 78-80H10



BZ 78-80 Fomblin Z04 base fluid #19
100F 43LBF 10198RPM #9 FILE: 78-80H10

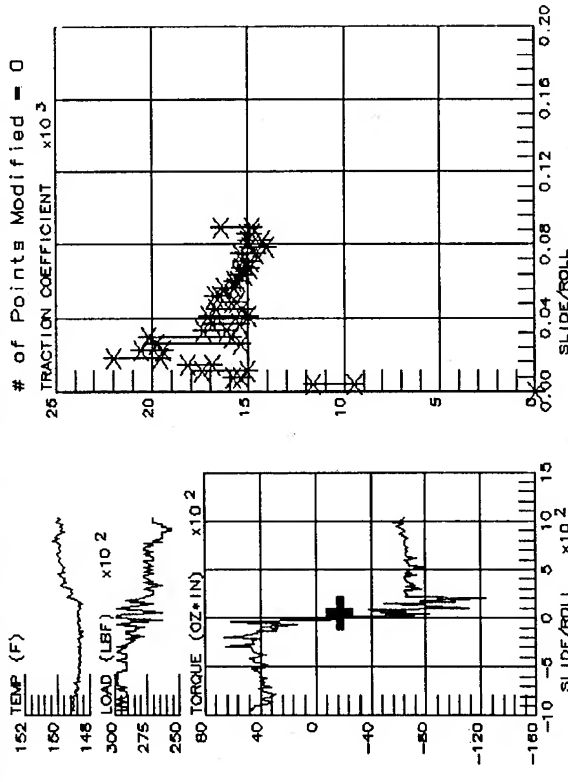


BZ 78-80 Fomblin Z04 base fluid #20
100F 74LBF 10198RPM #10 FILE: 78-80H10

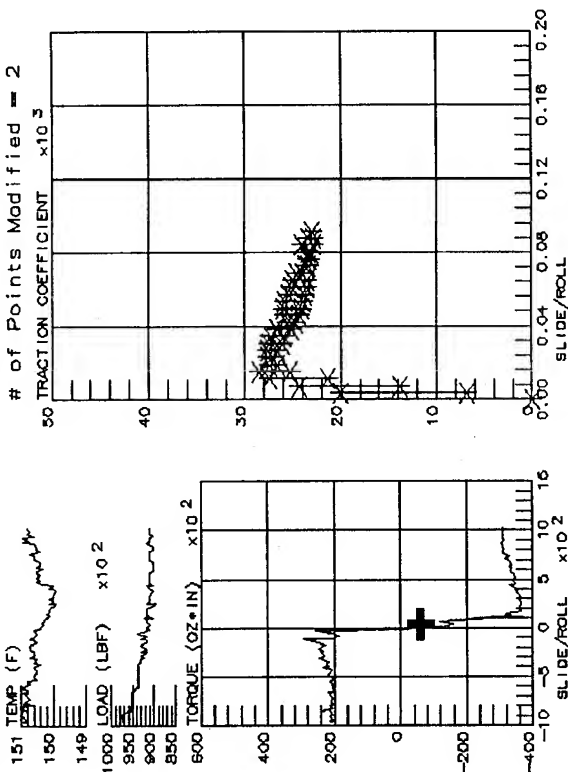


TRACTION DATA

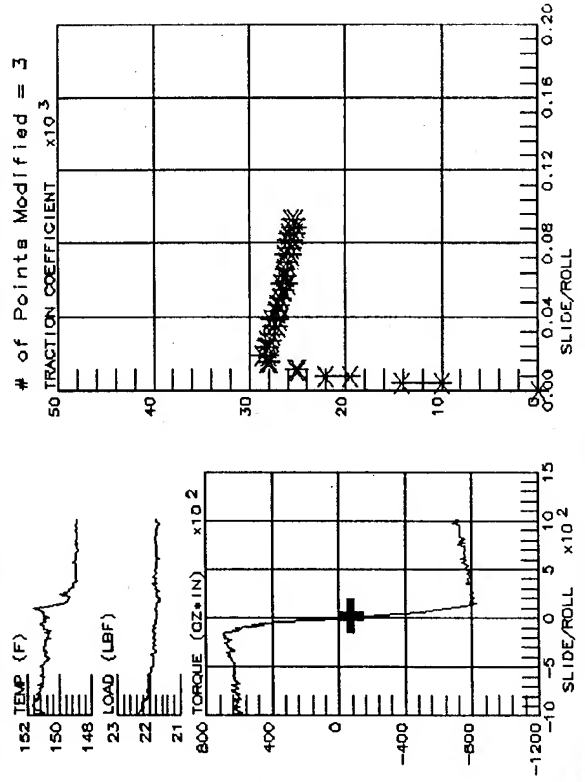
BZ 78-80 Fomblin Z04 base fluid #21
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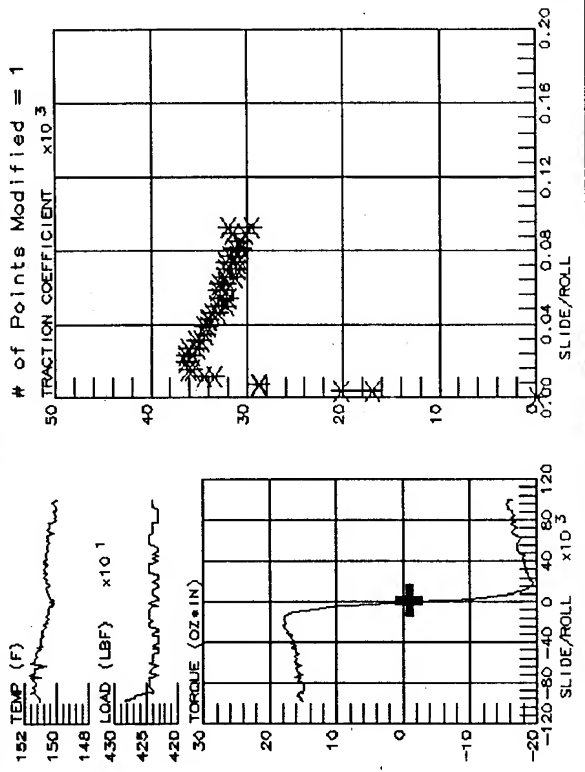
BZ 78-80 Fomblin Z04 base fluid #22
150F 10LBF 7639RPM #2 FILE: 78-80H15



BZ 78-80 Fomblin Z04 base fluid #23
150F 22LBF 7639RPM #3 FILE: 78-80H15

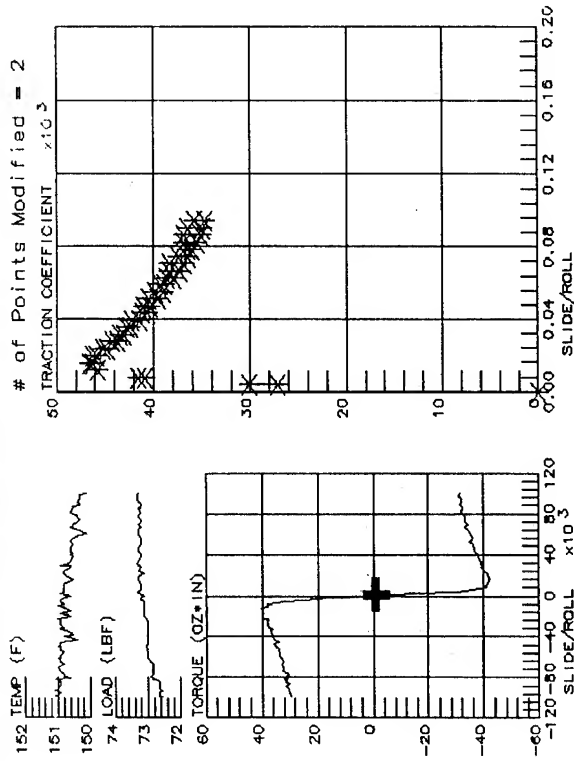


BZ 78-80 Fomblin Z04 base fluid #24
150F 43LBF 7639RPM #4 FILE: 78-80H15

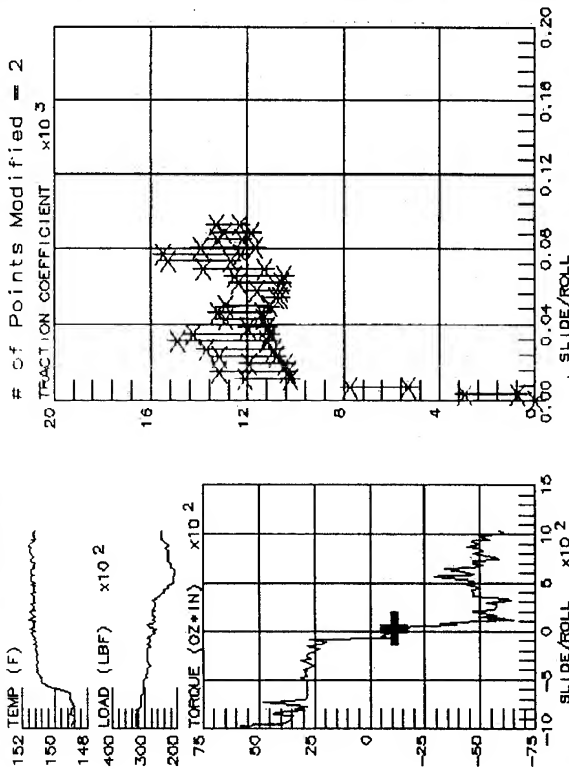


TRACTION DATA

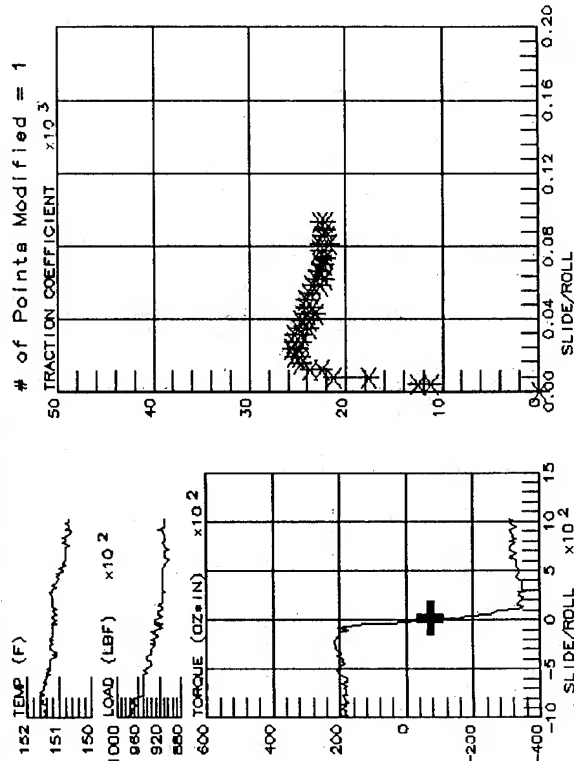
BZ 78-80 Fomblin Z04 base fluid #25
150F 74LBF 7639RPM #5 FILE: 78-80H15



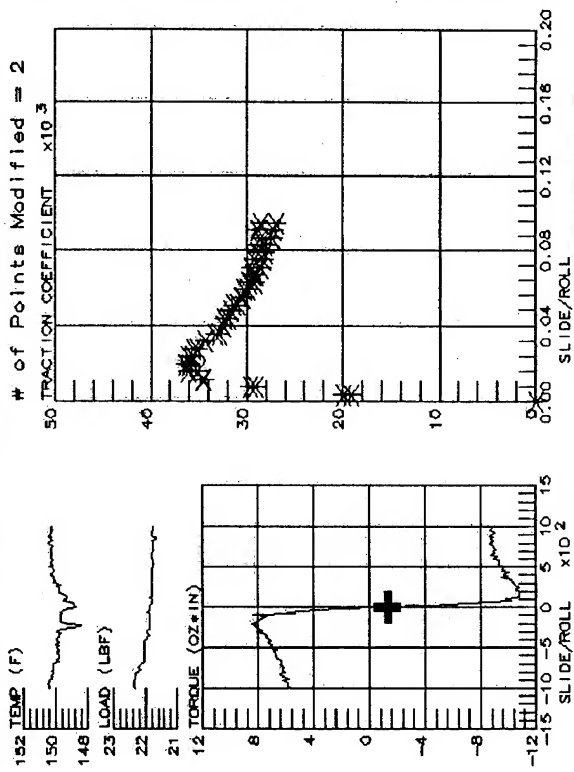
BZ 78-80 Fomblin Z04 base fluid #26
150F 3LBF 1019RPM #6 FILE: 78-80H15



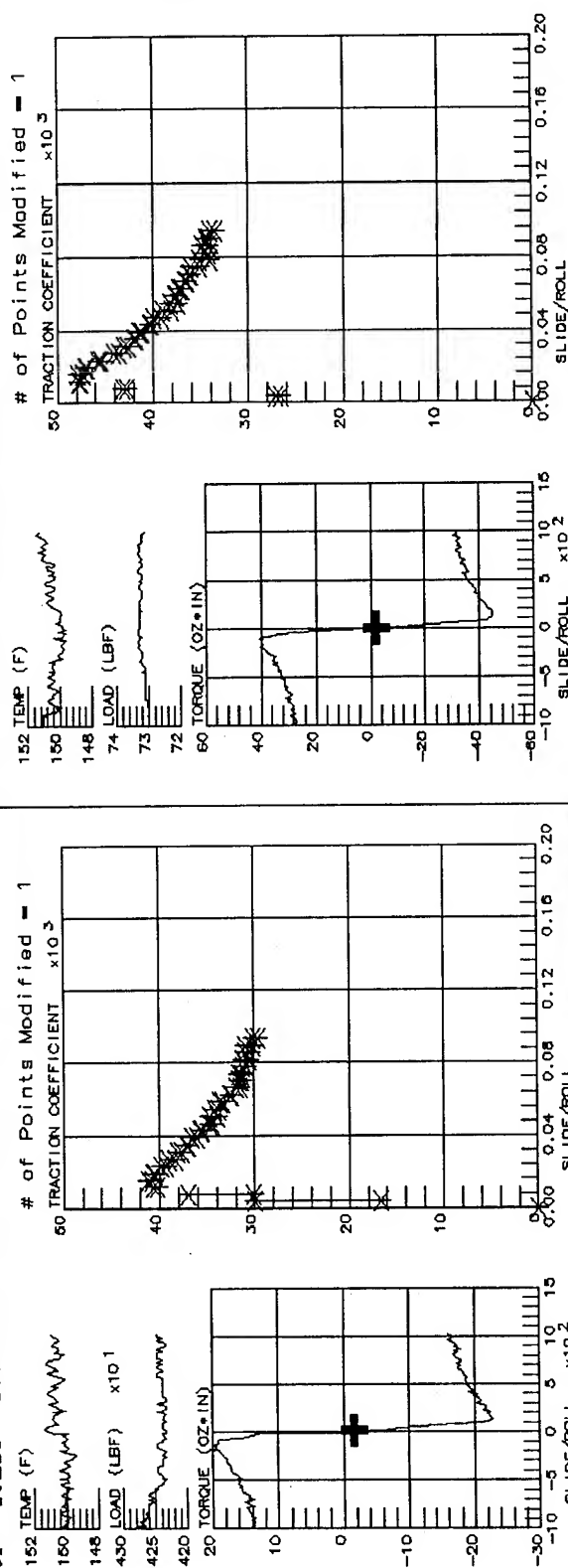
BZ 78-80 Fomblin Z04 base fluid #27
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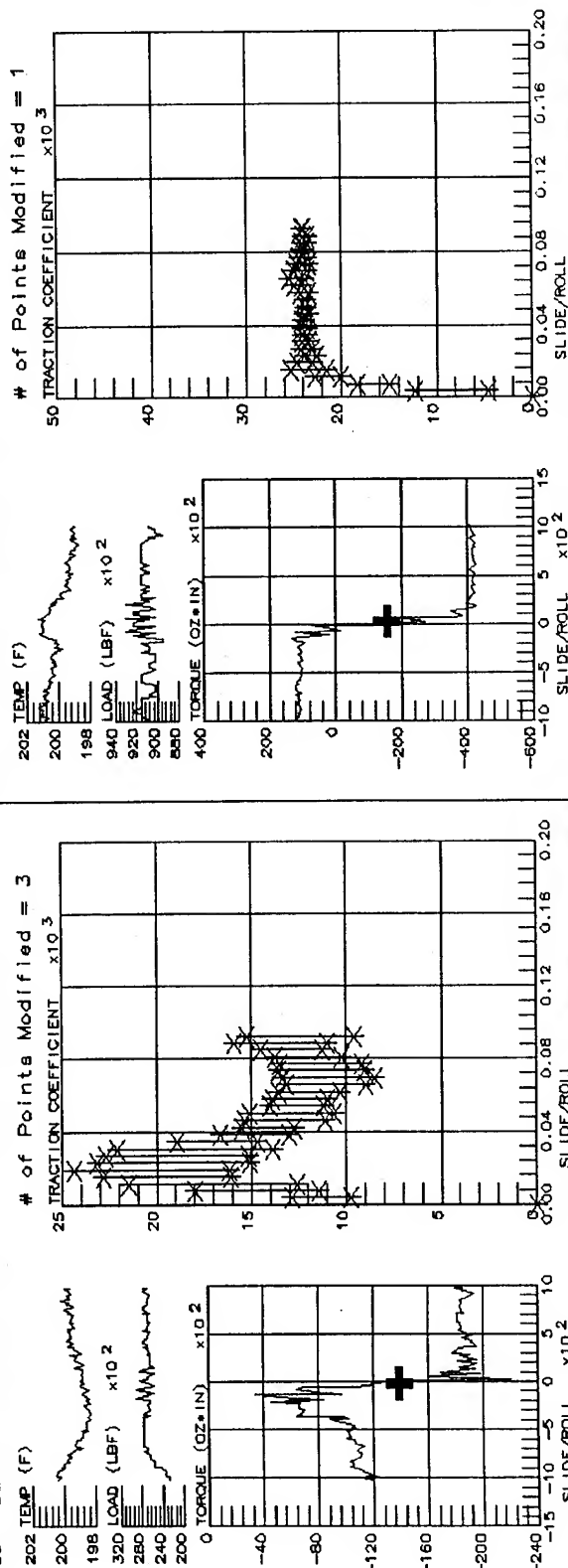
BZ 78-80 Fomblin Z04 base fluid #28
150F 22LBF 1019RPM #8 FILE: 78-80H15



BZ 78-80 Fomblin Z04 base fluid #29
150F 43LBF 1019RPM #9 FILE: 78-80H16

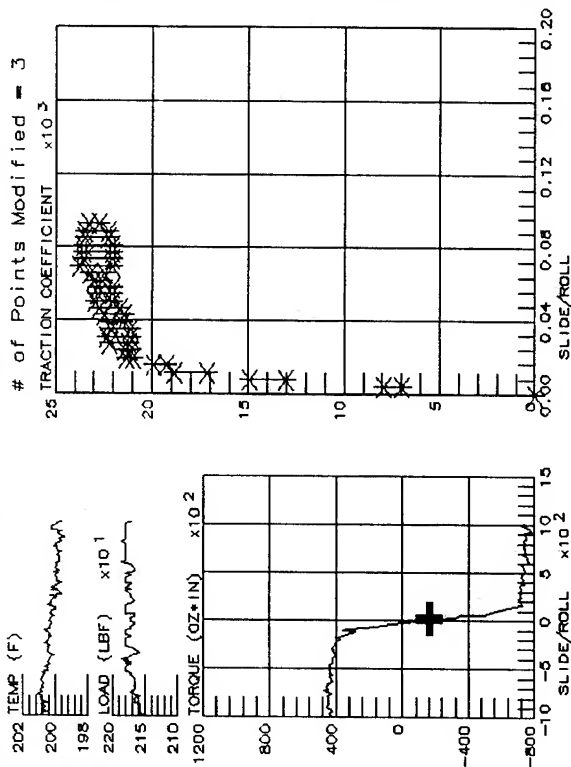


BZ 78-80 Fomblin Z04 base fluid #31
200F 3LBF 7639RPM #1 FILE: 78-80H20

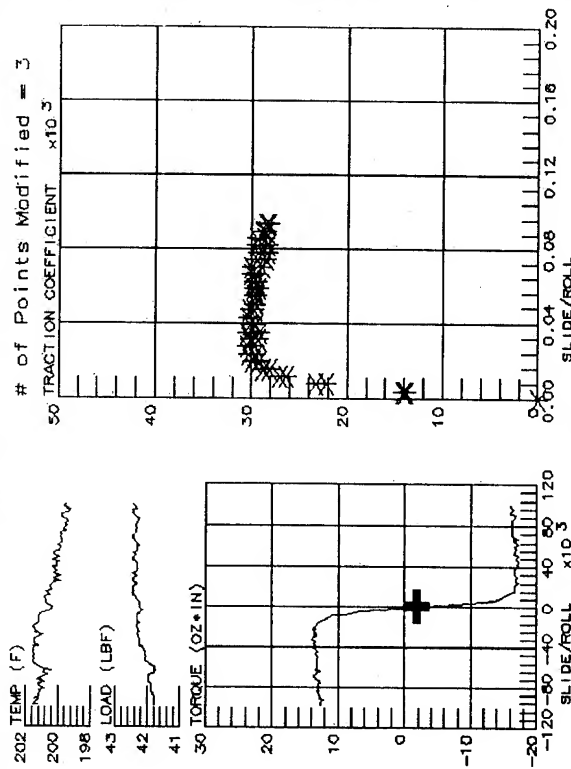


TRACTION DATA

BZ 78-80 Fomblin Z04 base fluid #33
200F 22LBF 7639RPM #3 FILE: 78-80H20

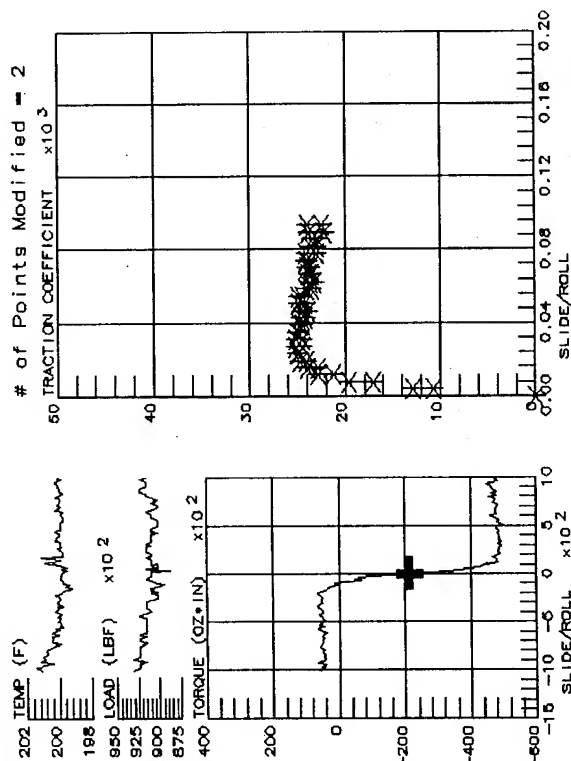


BZ 78-80 Fomblin Z04 base fluid #34
200F 43LBF 7639RPM #4 FILE: 78-80H20

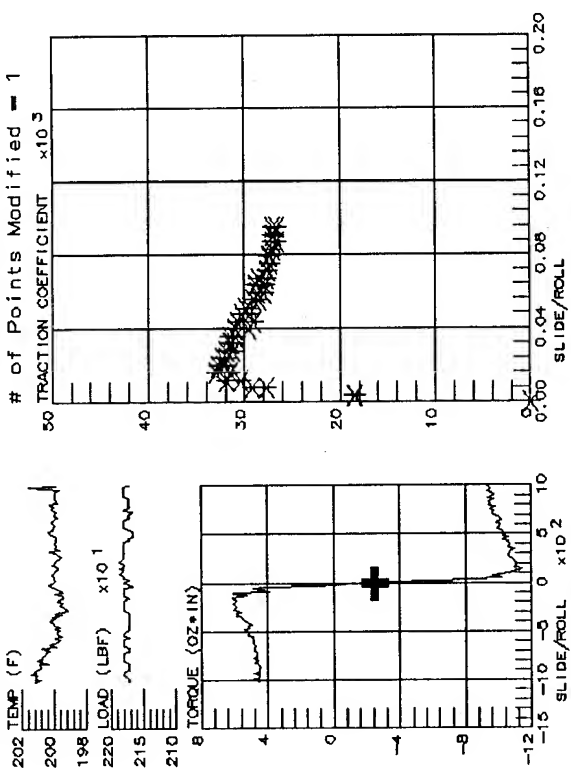


TRACTION DATA

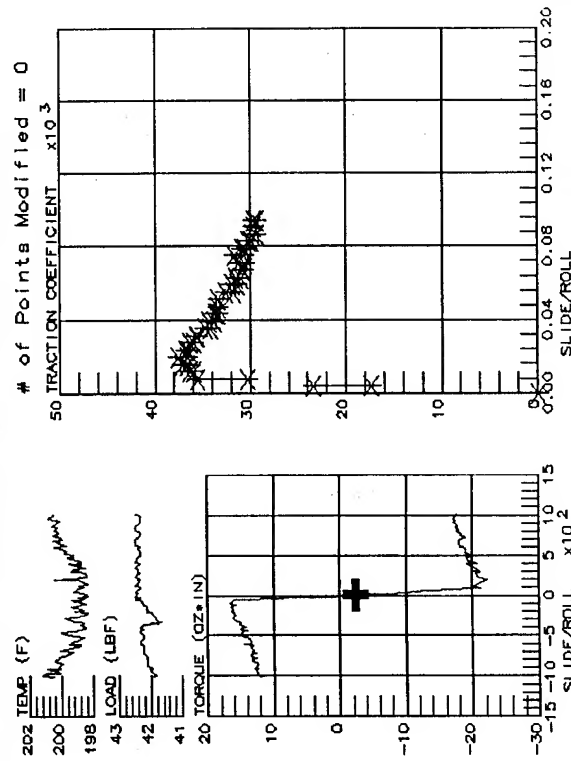
BZ 78-80 Fomblin Z04 base fluid #37
200F 10LBF 10198RPM #7 FILE: 78-80H20



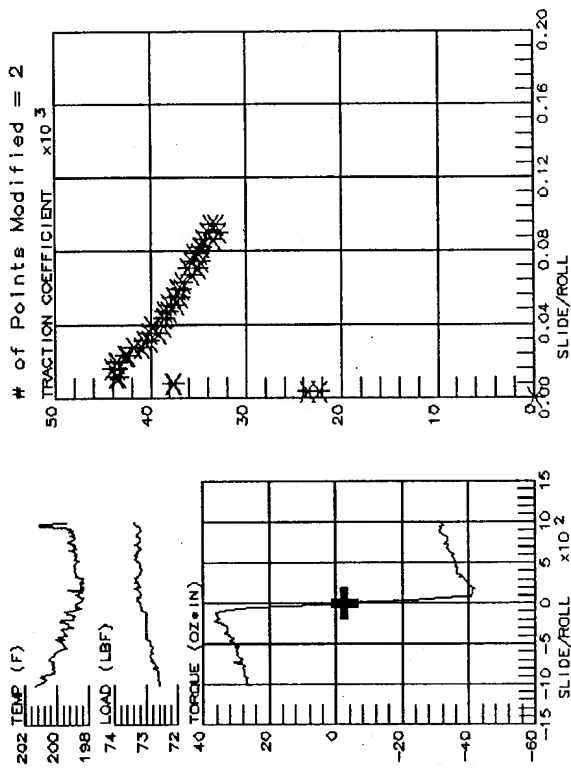
BZ 78-80 Fomblin Z04 base fluid #39
200F 22LBF 10198RPM #8 FILE: 78-80H20



BZ 78-80 Fomblin Z04 base fluid #39
200F 43LBF 10198RPM #9 FILE: 78-80H20

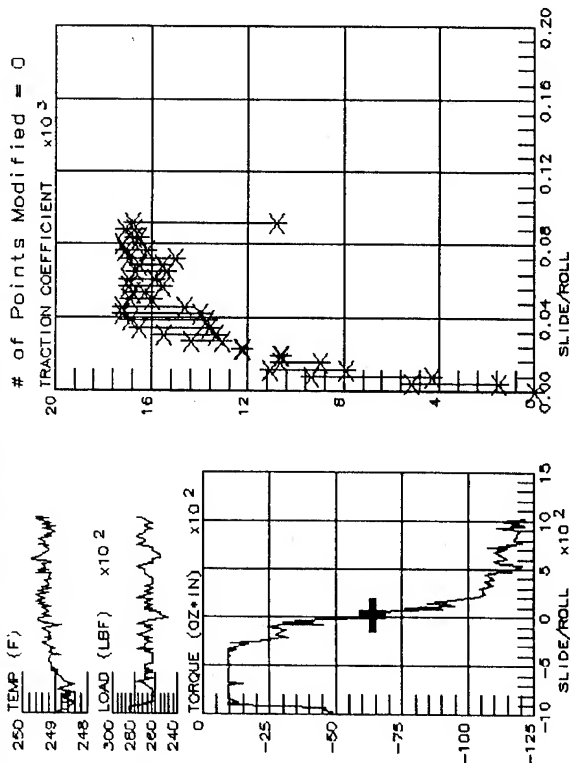


BZ 78-80 Fomblin Z04 base fluid #40
200F 74LBF 10198RPM #10 FILE: 78-80H20

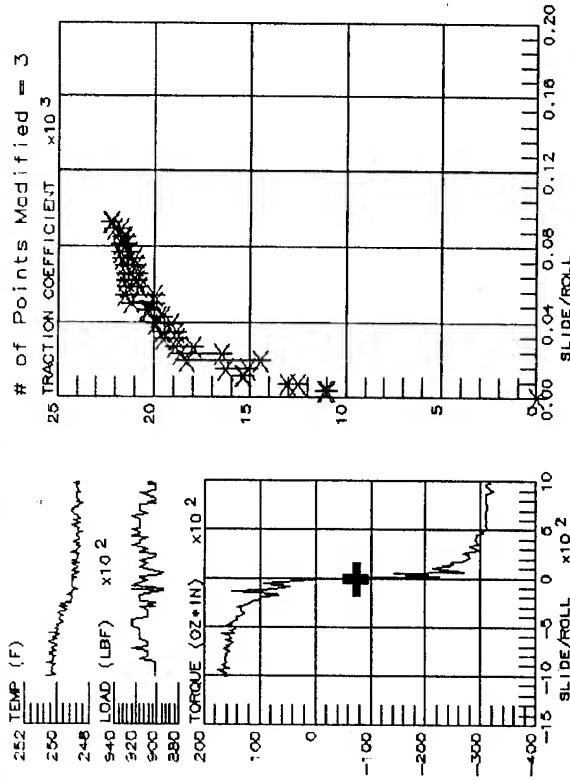


TRACTION DATA

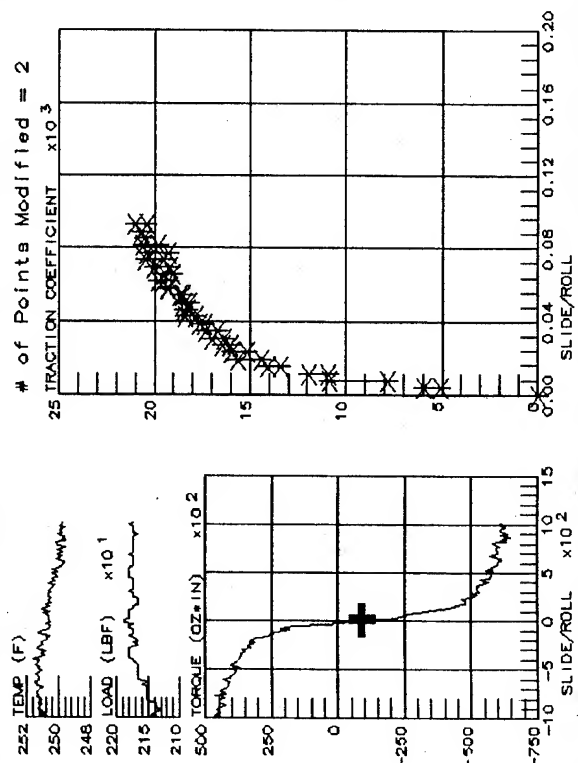
BZ 78-80 Fomblin Z04 base fluid #41
250F 3LBF 7639RPM #1 FILE: 78-80H25



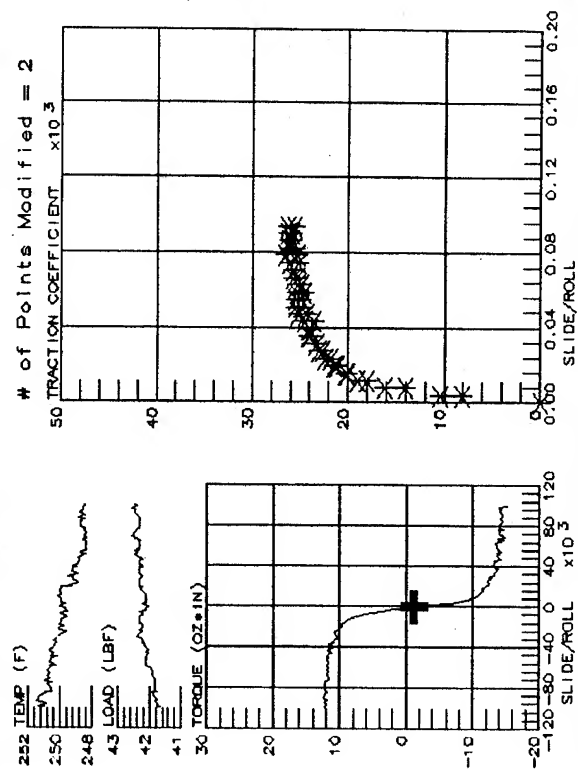
BZ 78-80 Fomblin Z04 base fluid #42
250F 10LBF 7639RPM #2 FILE: 78-80H25



BZ 78-80 Fomblin Z04 base fluid #43
250F 22LBF 7639RPM #3 FILE: 78-80H25

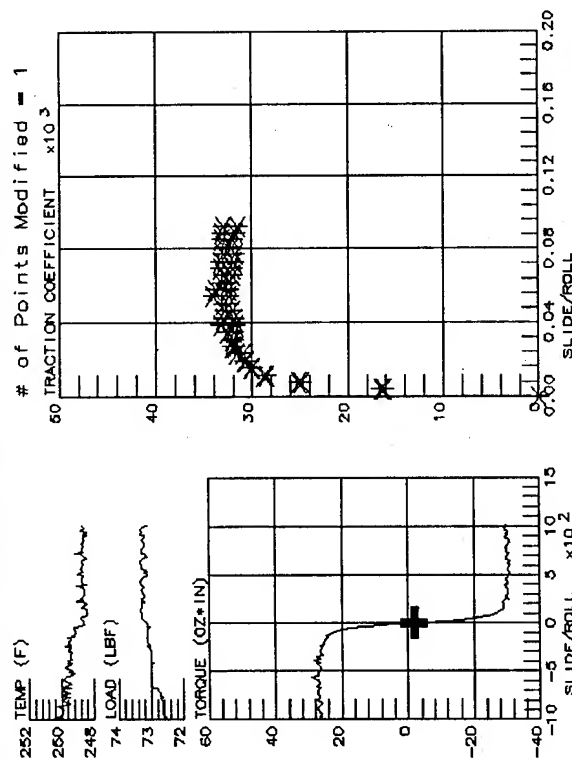


BZ 78-80 Fomblin Z04 base fluid #44
250F 43LBF 7639RPM #4 FILE: 78-80H25



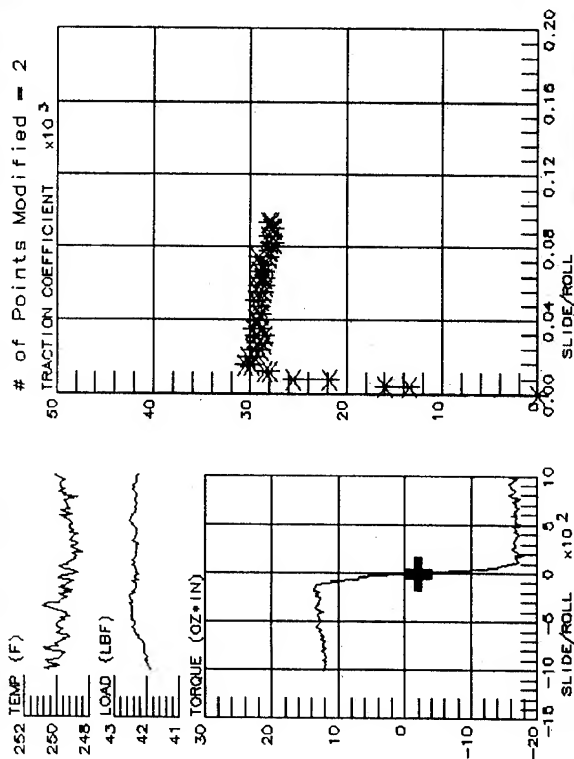
TRACTION DATA

BZ 78-80 Fomblin Z04 base fluid #45
250F 74LBF 7639RPM #6 FILE: 78-80H25

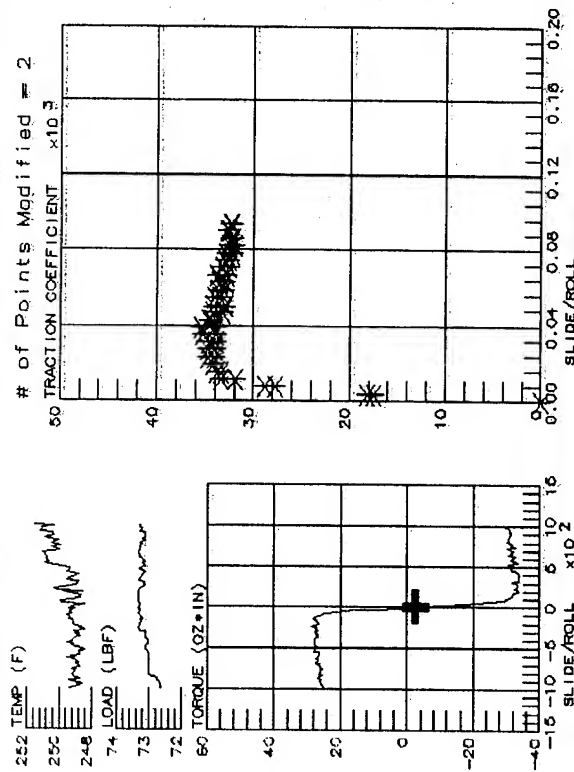


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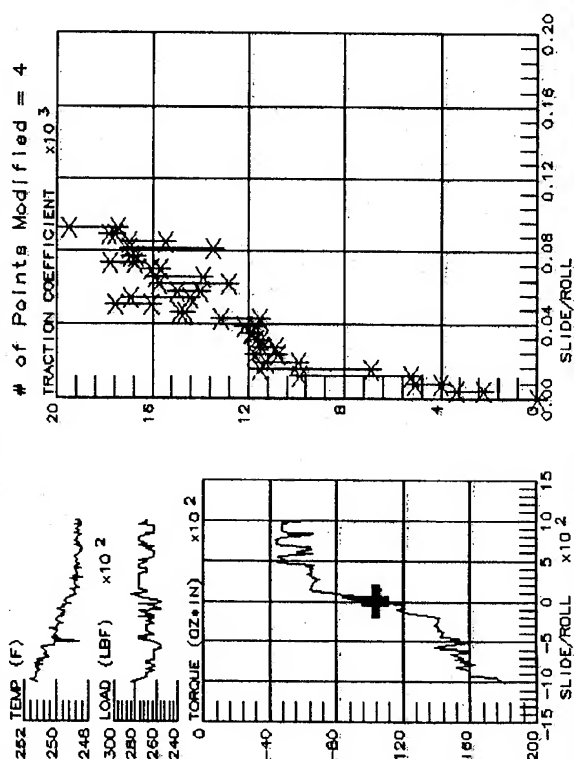
BZ 78-80 Fomblin Z04 base fluid #49
250F 43LBF 10198RPM #9 FILE: 78-80H25



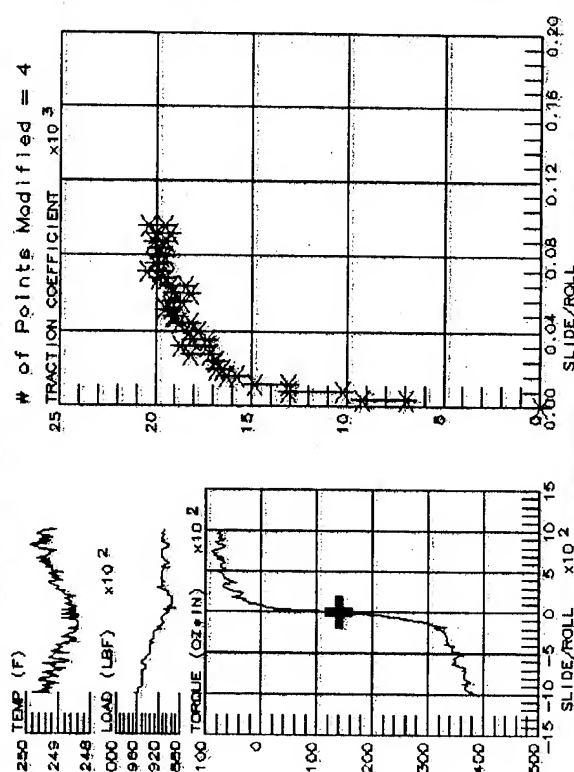
BZ 78-80 Fomblin Z04 base fluid #50
250F 74LBF 10198RPM #10 FILE: 78-80H25



BZ 78-80 Fomblin Z04 base fluid #51
250F 31LBF 10198RPM #11 FILE: 78-80H25

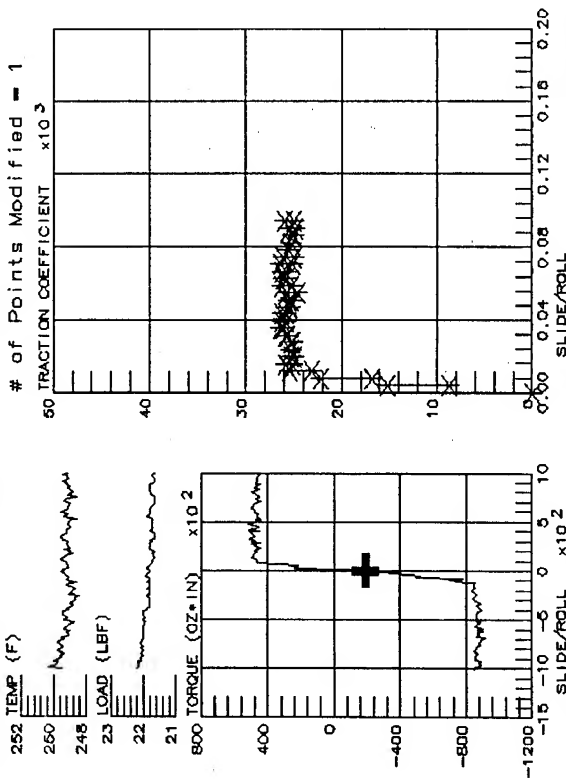


BZ 78-80 Fomblin Z04 base fluid #52
250F 10LBF 10198RPM #12 FILE: 78-80H25

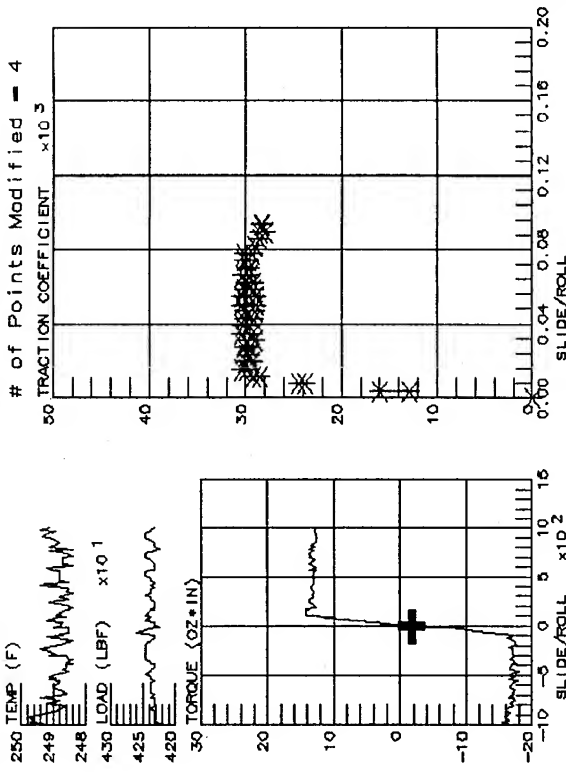


TRACTION DATA

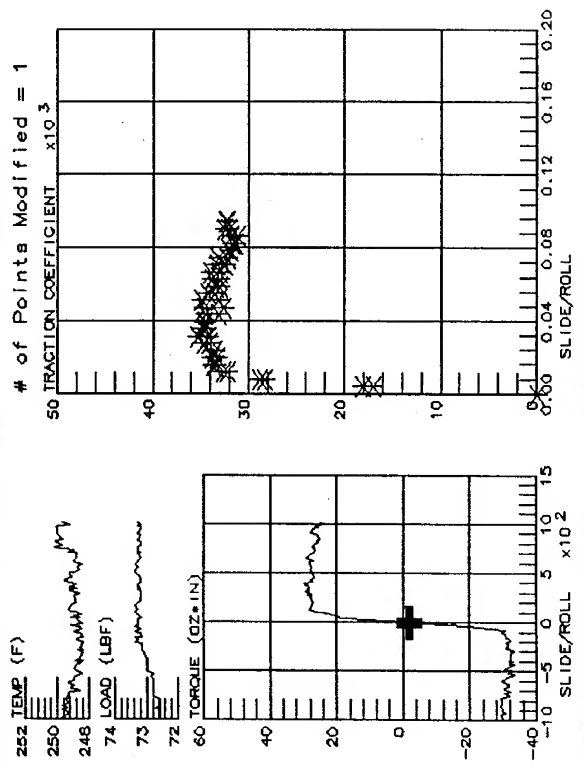
BZ 78-80 Fomblin Z04 base fluid #53
250F 22LBF 1019RPM #13 FILE: 78-80H25



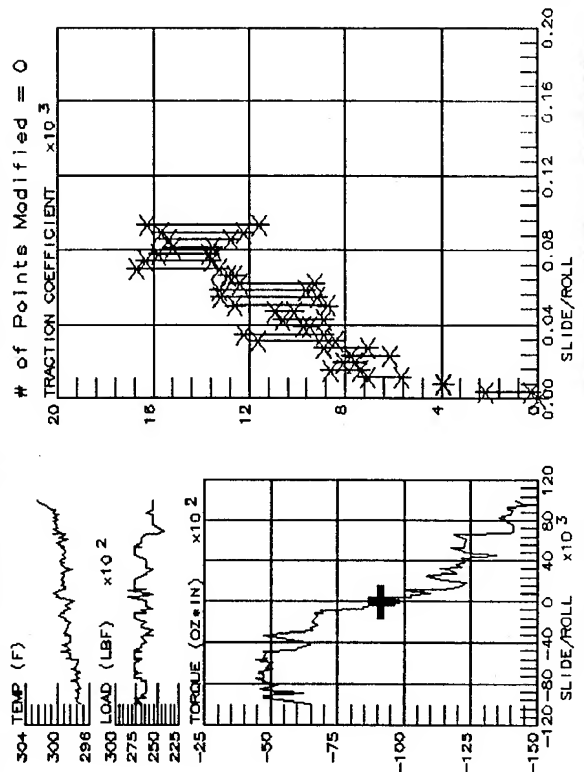
BZ 78-80 Fomblin Z04 base fluid #54
260F 43LBF 1019RPM #14 FILE: 78-80H25



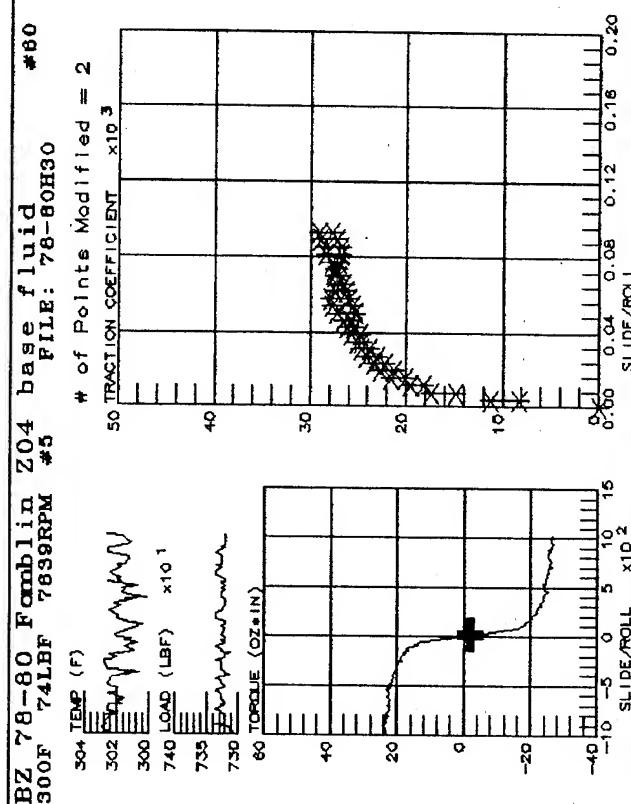
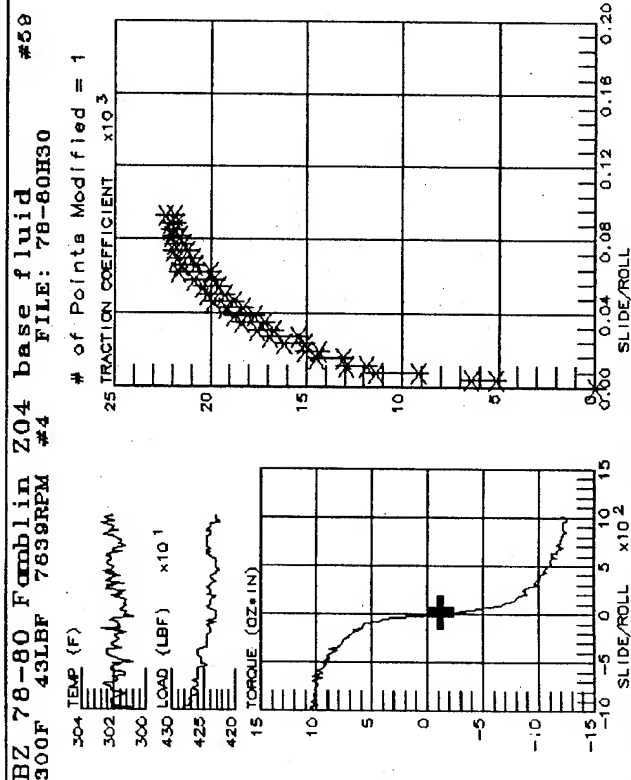
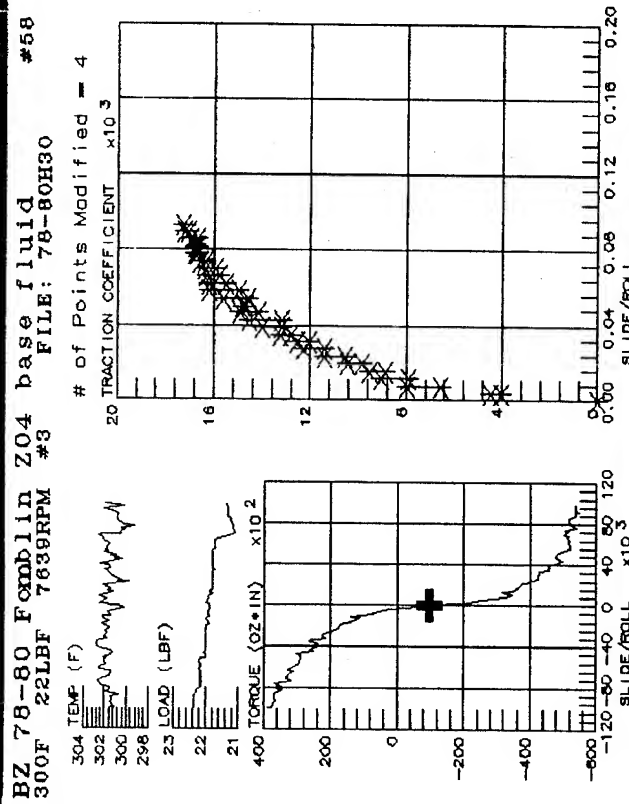
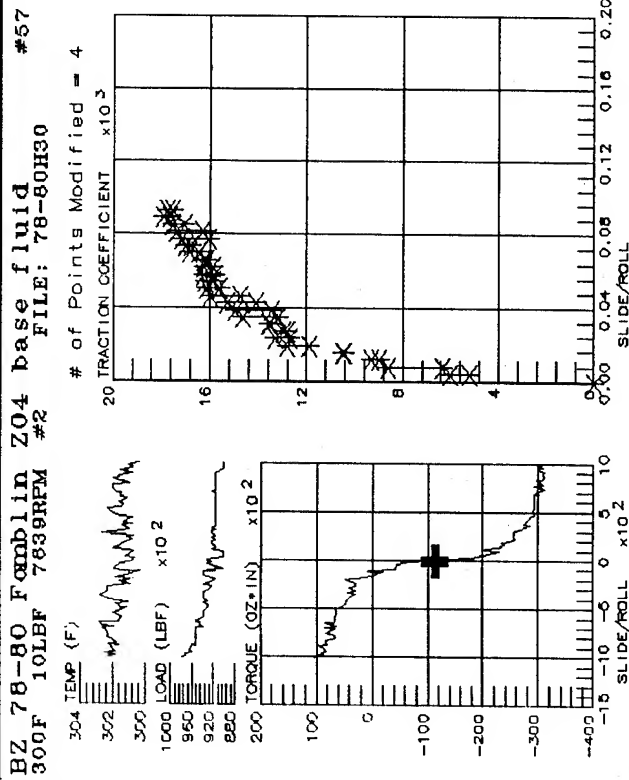
BZ 78-80 Fomblin Z04 base fluid #55
250F 74LBF 1019RPM #15 FILE: 78-80H25



BZ 78-80 Fomblin Z04 base fluid #56
300F 31LBF 7639RPM #1 FILE: 78-80H30



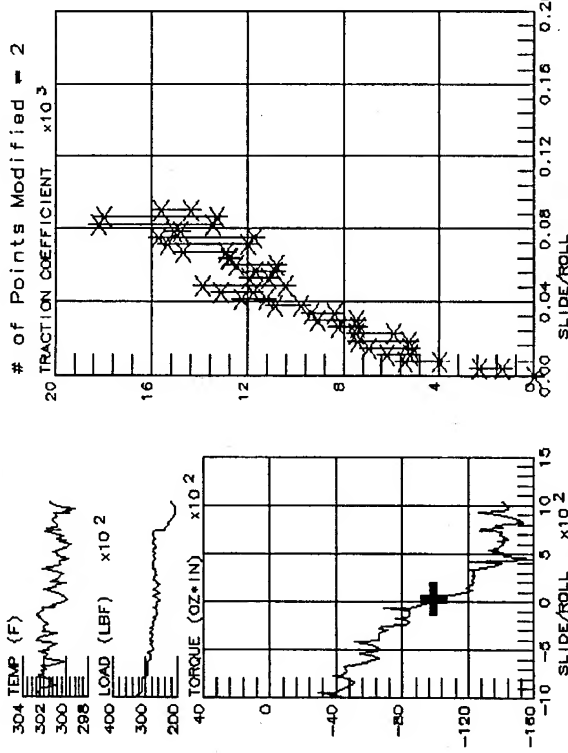
TRACTION DATA



TRACTION DATA

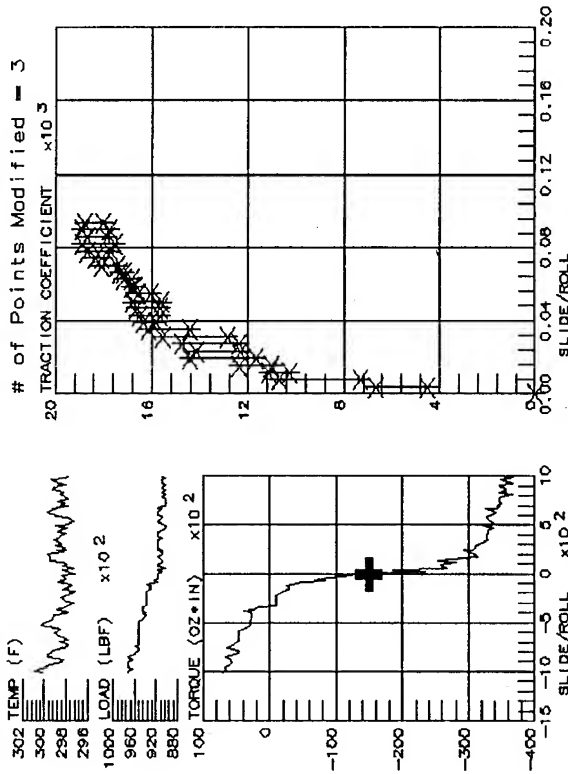
BZ 78-80 Fomblin Z04 base fluid #61
300F 3LBF 1019RPM #8 FILE: 78-80H30

of Points Modified = 2



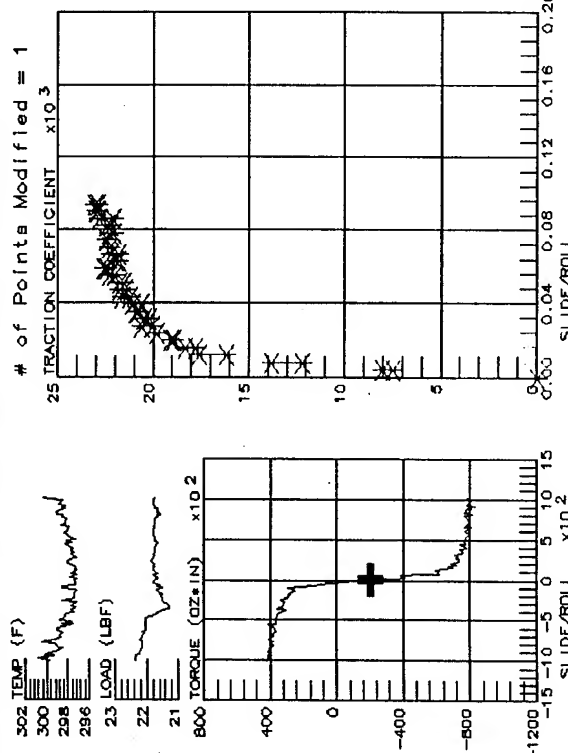
BZ 78-80 Fomblin Z04 base fluid #62
300F 10LBF 1019RPM #7 FILE: 78-80H30

of Points Modified = 3



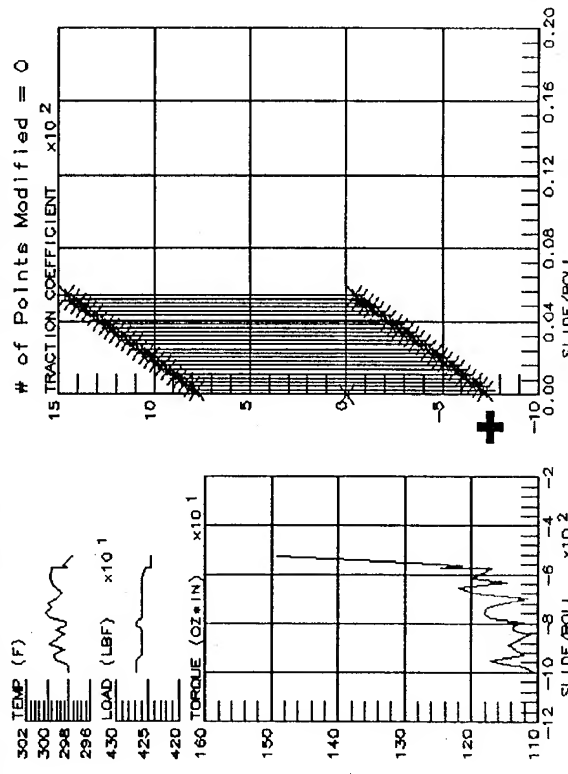
BZ 78-80 Fomblin Z04 base fluid #63
300F 22LBF 1019RPM #8 FILE: 78-80H30

of Points Modified = 1

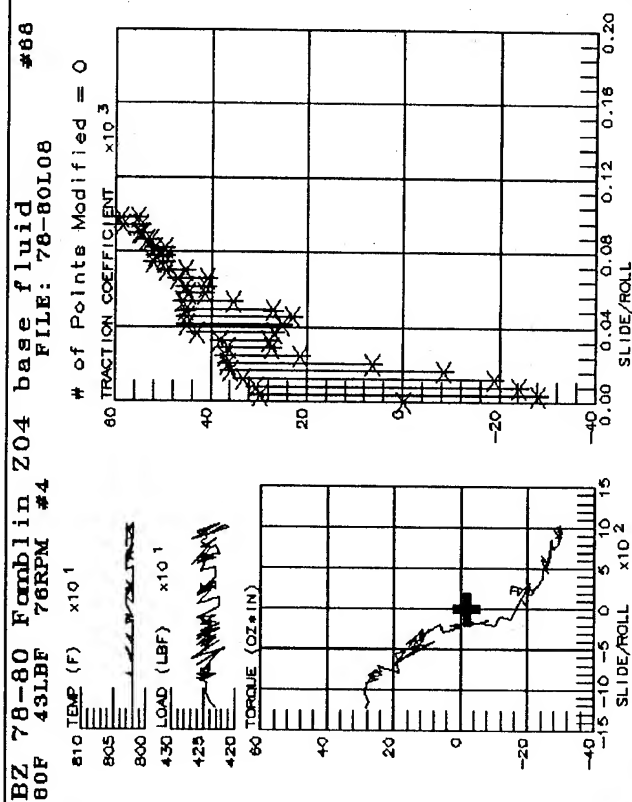
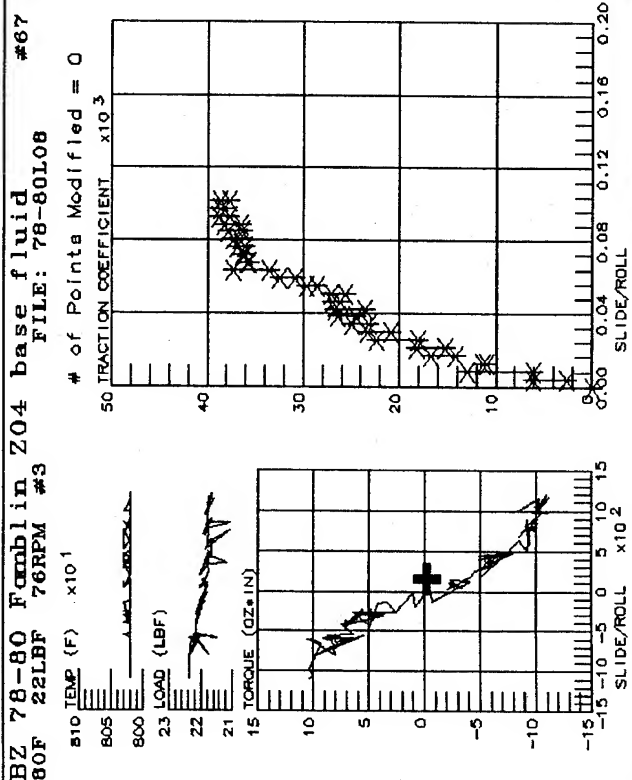
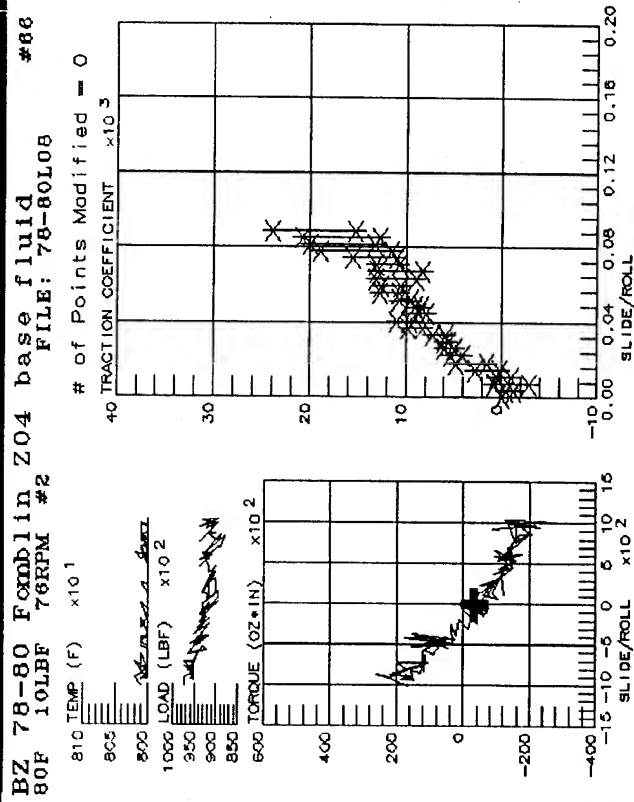
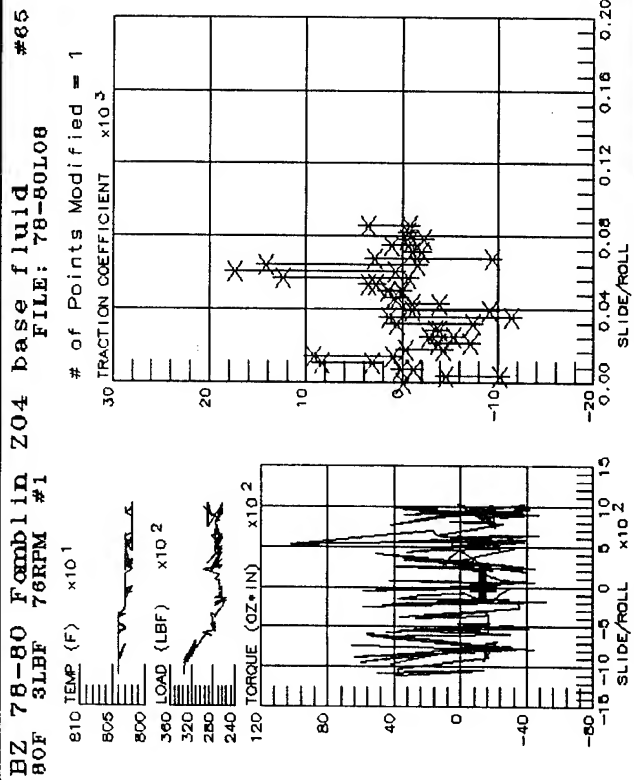


BZ 78-80 Fomblin Z04 base fluid #64
300F 43LBF 1019RPM #9 FILE: 78-80H30

of Points Modified = 0

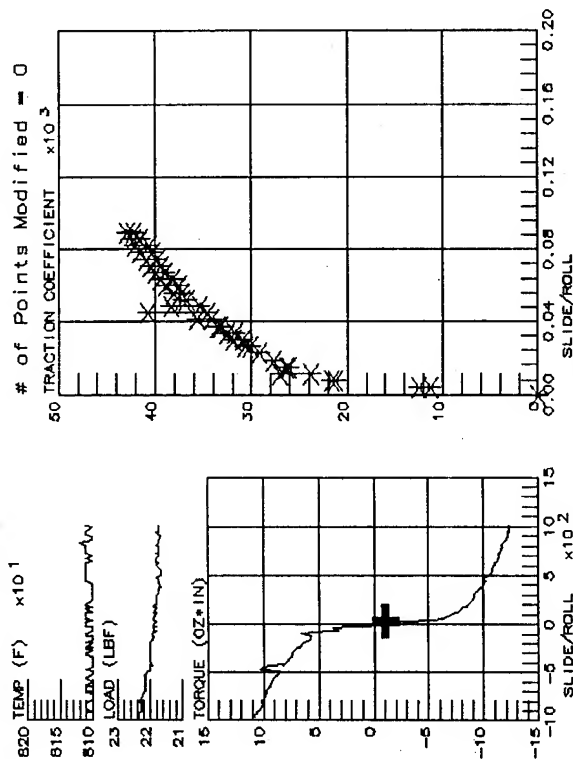


TRACTION DATA

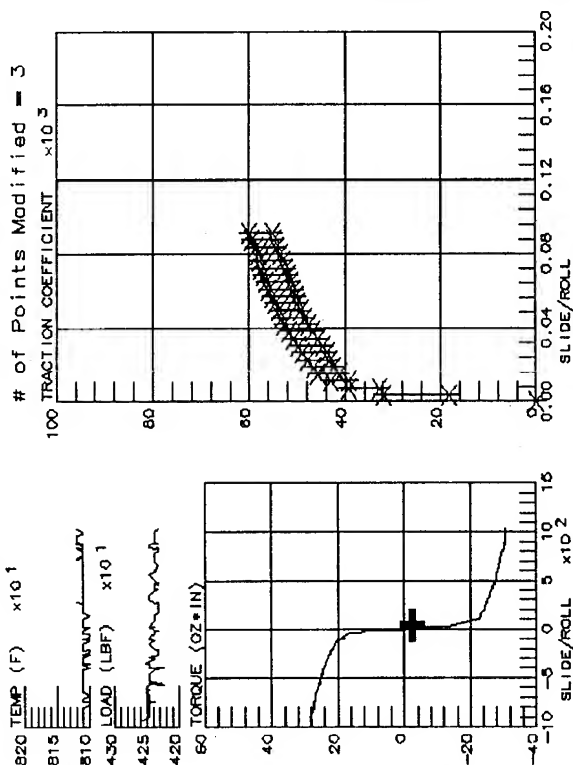


TRACTION DATA

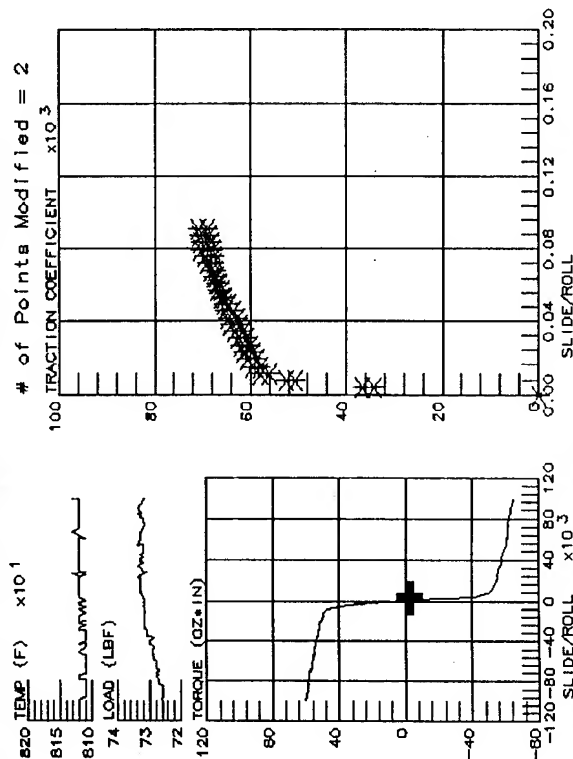
BZ 78-80 Fomblin Z04 base fluid #77
80F 22LBF 305RPM #13 FILE: 78-80L08



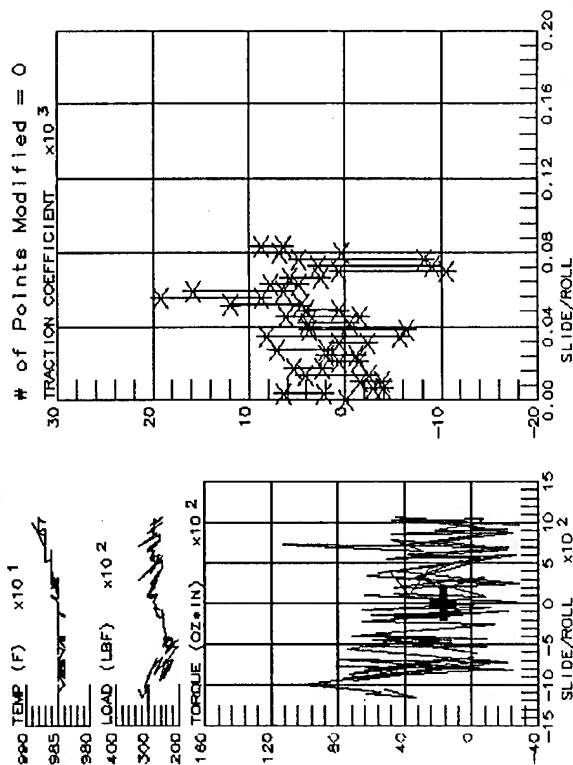
BZ 78-80 Fomblin Z04 base fluid #78
80F 43LBF 305RPM #14 FILE: 78-80L08



BZ 78-80 Fomblin Z04 base fluid #79
80F 74LBF 305RPM #15 FILE: 78-80L08



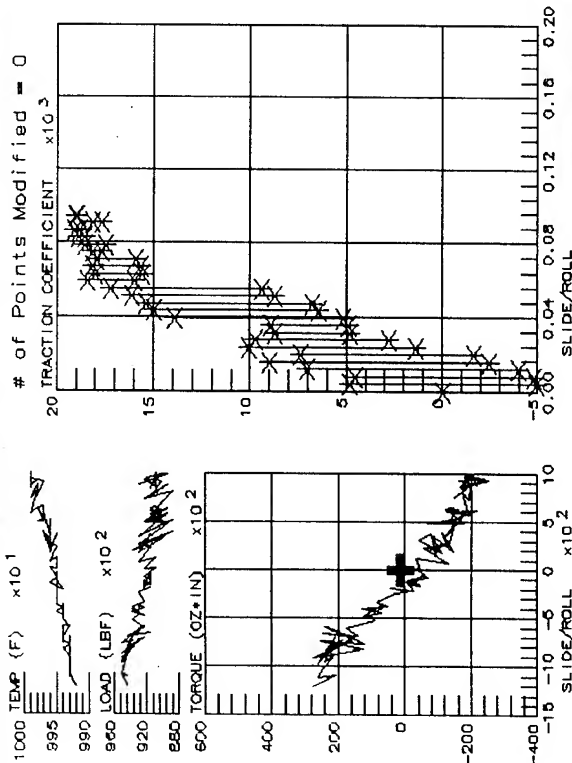
BZ 78-80 Fomblin Z04 base fluid #80
100F 31LBF 76RPM #1 FILE: 78-80L10



1

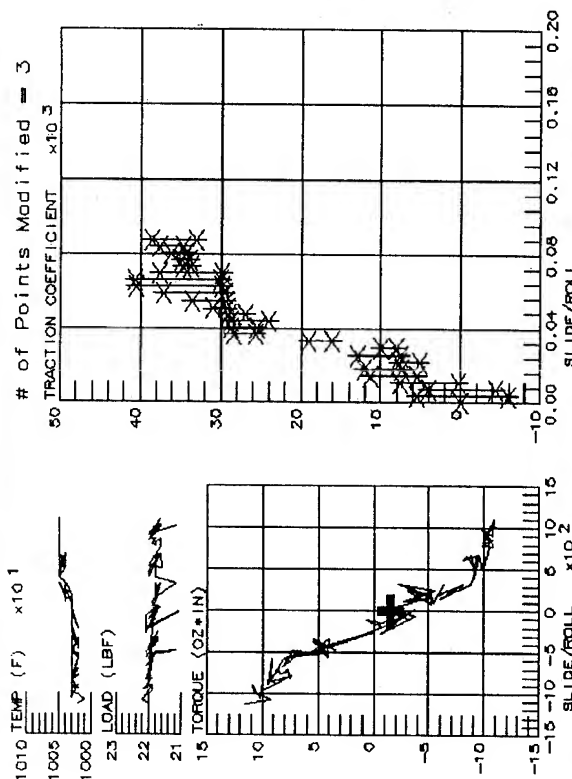
BZ 78-80 Fomblin Z04 base fluid #81
100F 10LBF 78RPM #2 FILE: 78-80L10

of Points Modified = 0



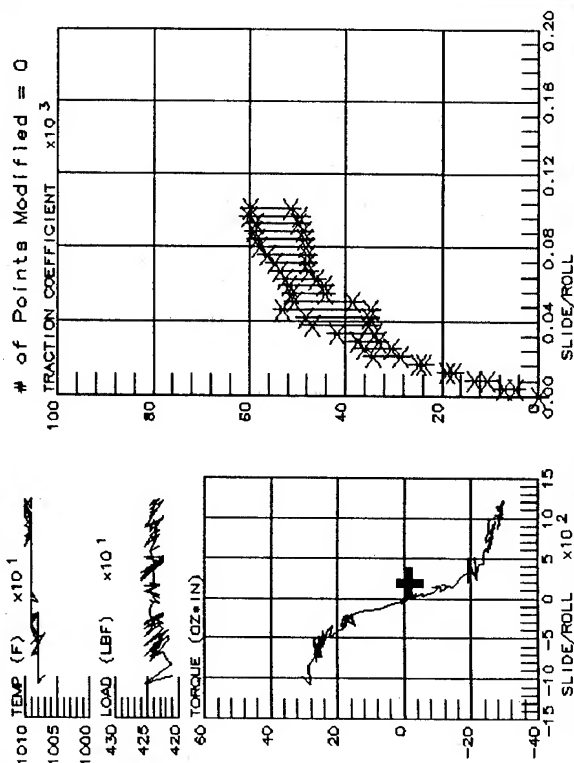
BZ 78-80 Fomblin Z04 base fluid
100F 22LBF 76RFM #3 FILE: 78-80L10 #82

of Points Modified = 3



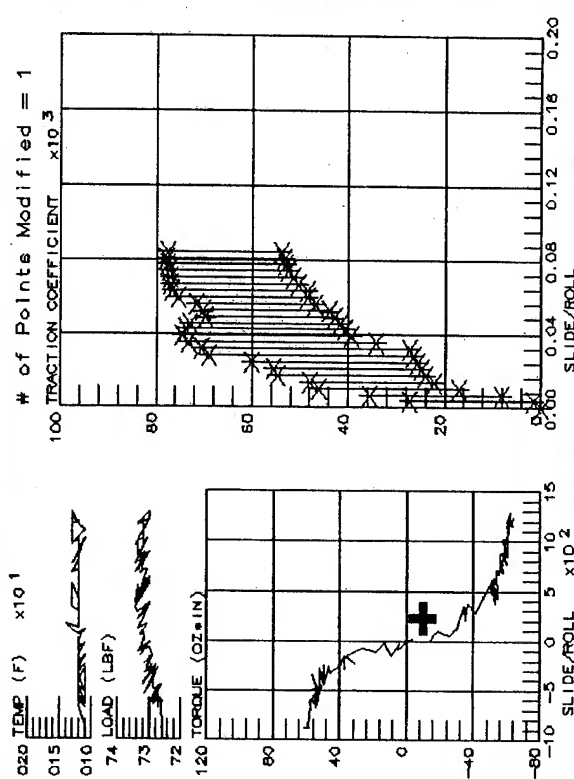
BBZ 78-80 Fomblin Z04 base fluid #83
100F 43LBF 76RPM #4 FILE: 78-80L10

of Points Modified = 0



BZ 78-80 Fomblin Z04 base fluid
1100F 74LBF 78RPM #5 FILE: 78-80L10 #84

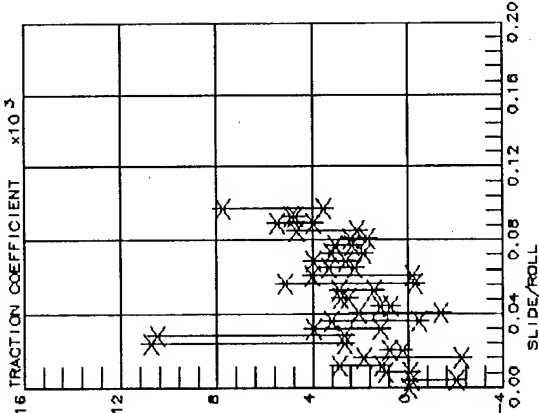
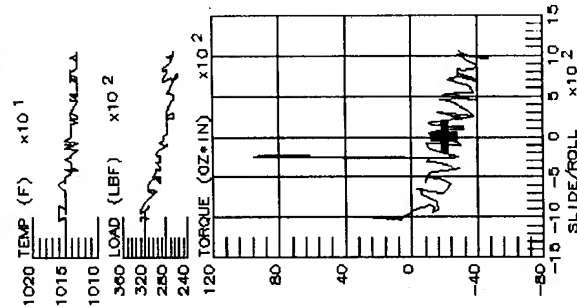
of Points Modified = 1



TRACTION DATA

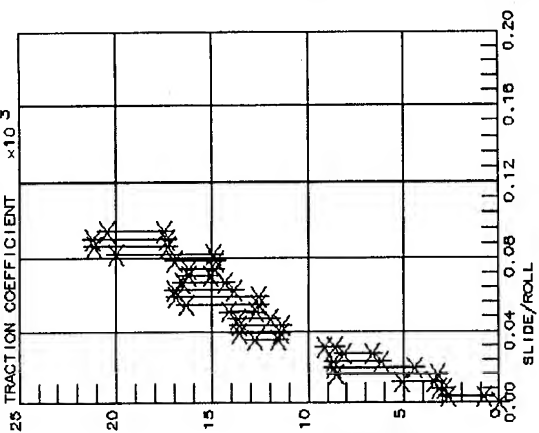
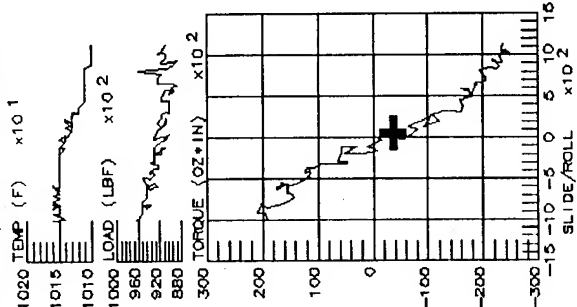
BZ 78-80 Fomblin Z04 base fluid #85
FILE: 78-80L10
100F 3LBF 152RPM #6

of Points Modified = 0



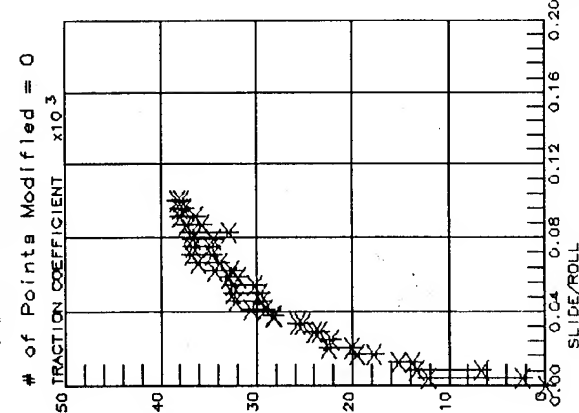
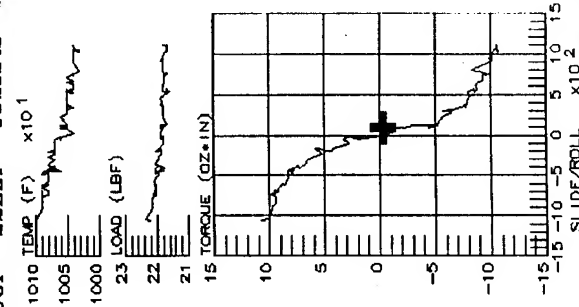
BZ 78-80 Fomblin Z04 base fluid #86
FILE: 78-80L10
100F 10LBF 152RPM #7

of Points Modified = 0



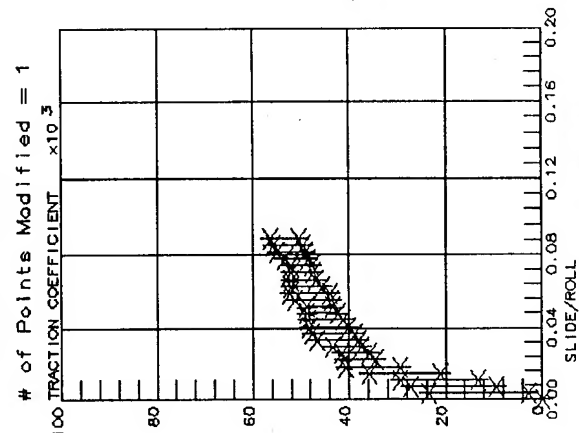
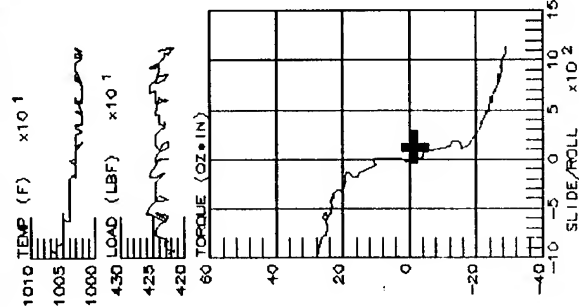
BZ 78-80 Fomblin Z04 base fluid #87
FILE: 78-80L10
100F 22LBF 152RPM #8

of Points Modified = 0

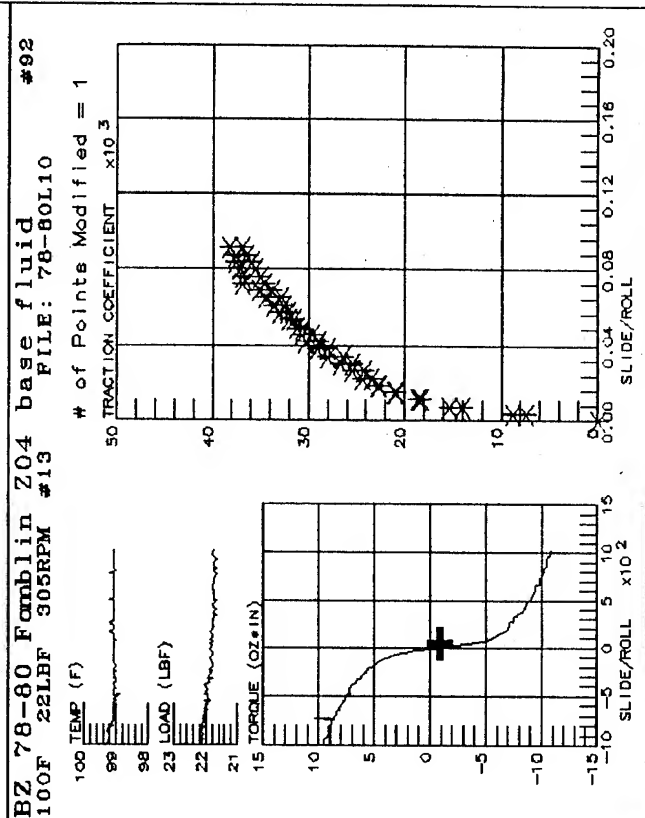
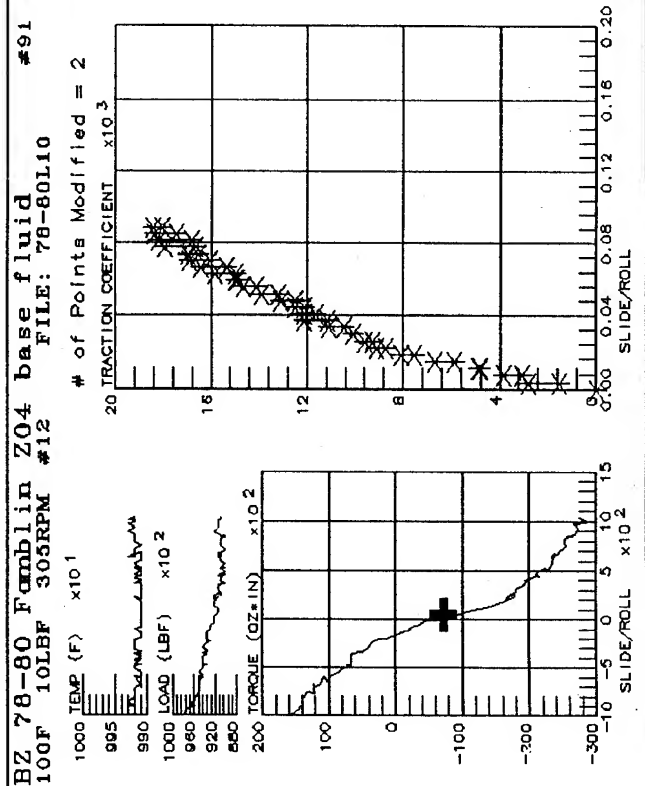
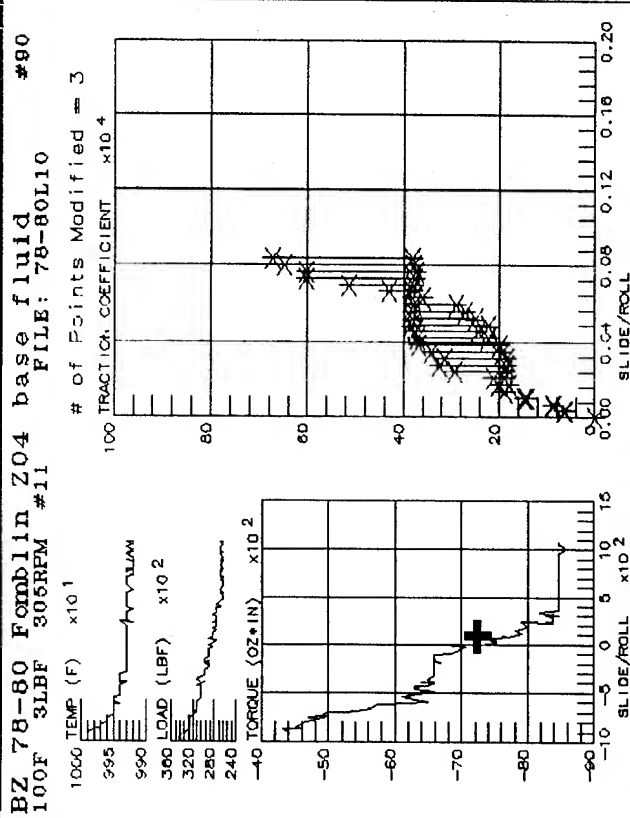
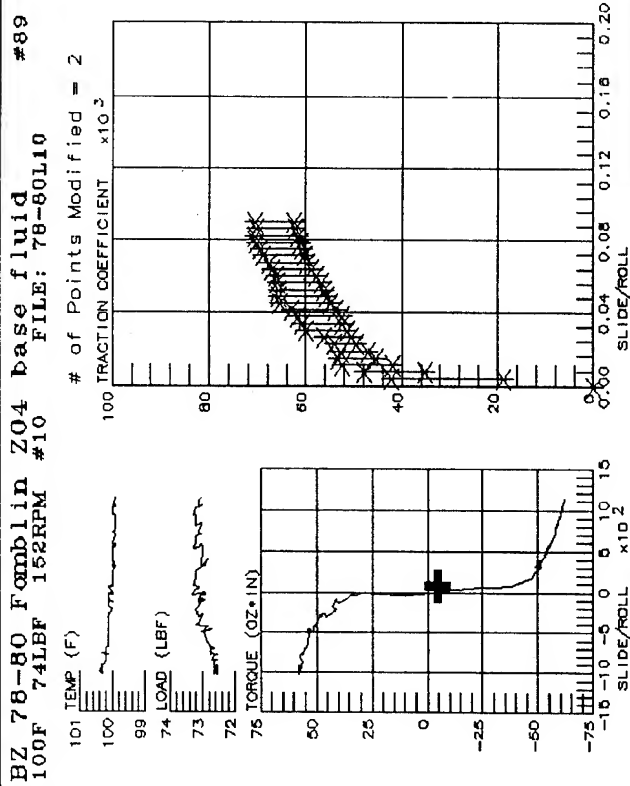


BZ 78-80 Fomblin Z04 base fluid #88
FILE: 78-80L10
100F 43LBF 152RPM #9

of Points Modified = 1



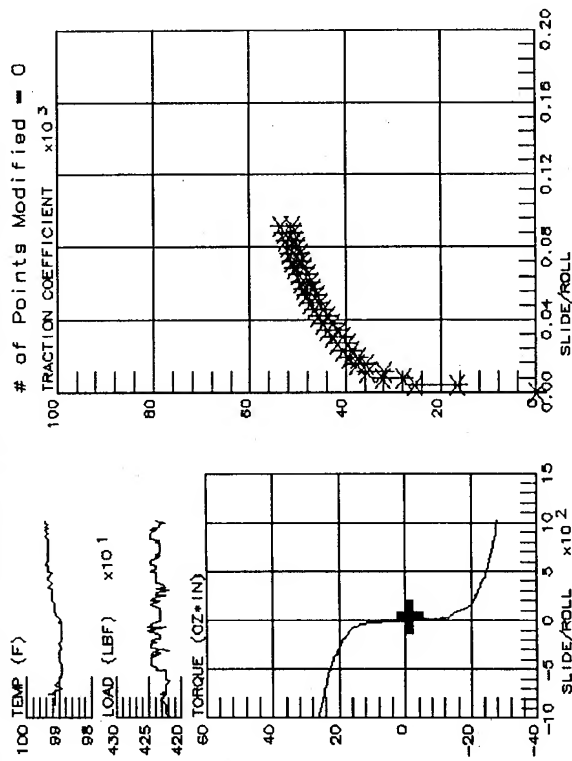
TRACTION DATA



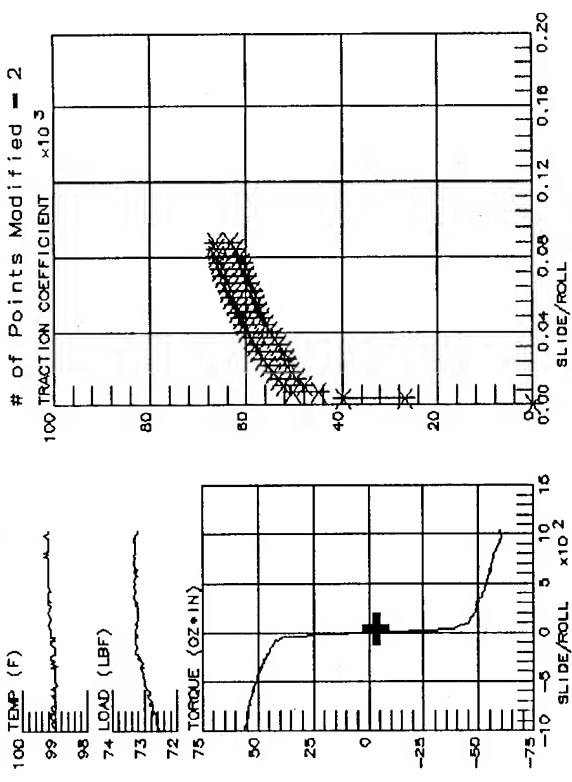
TRACTION DATA

BZ 78-80 Fomblin Z04 base fluid #93
100F 43LBF 305RPM #14 FILE: 78-80L10

of Points Modified = 0

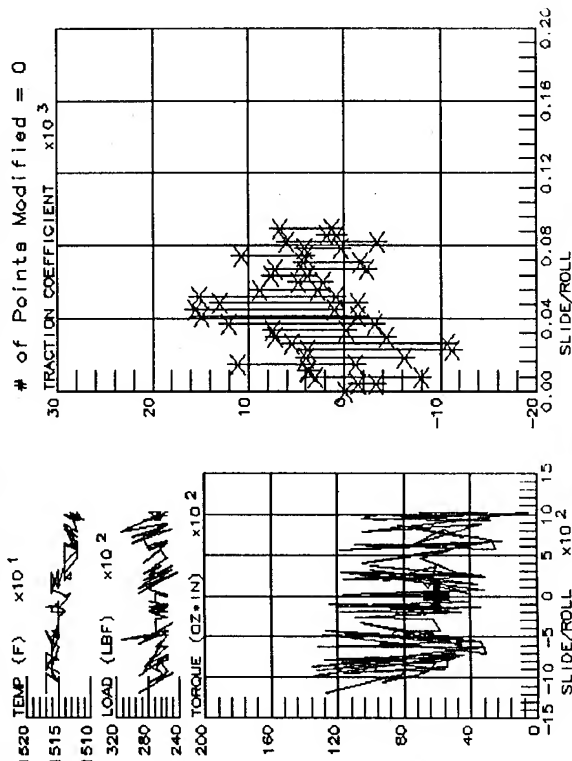


of Points Modified = 2

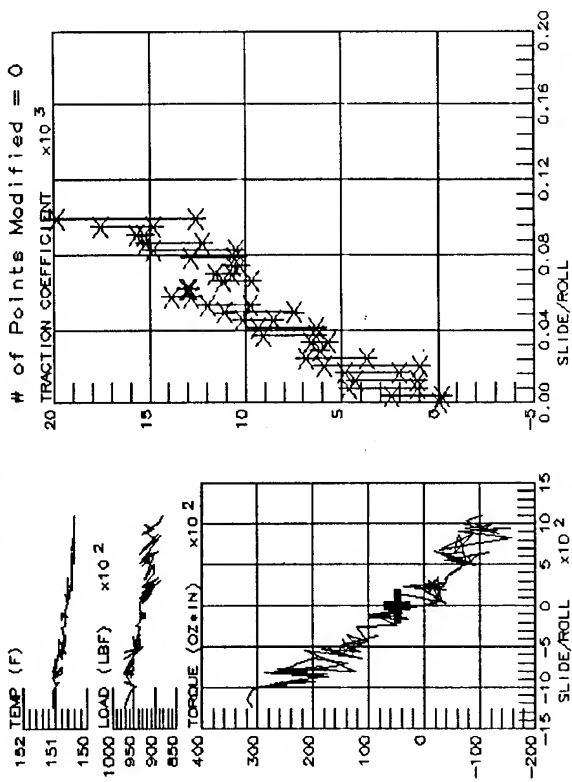


BZ 78-80 Fomblin Z04 base fluid #95
150F 3LBF 76RPM #1 FILE: 78-80L15

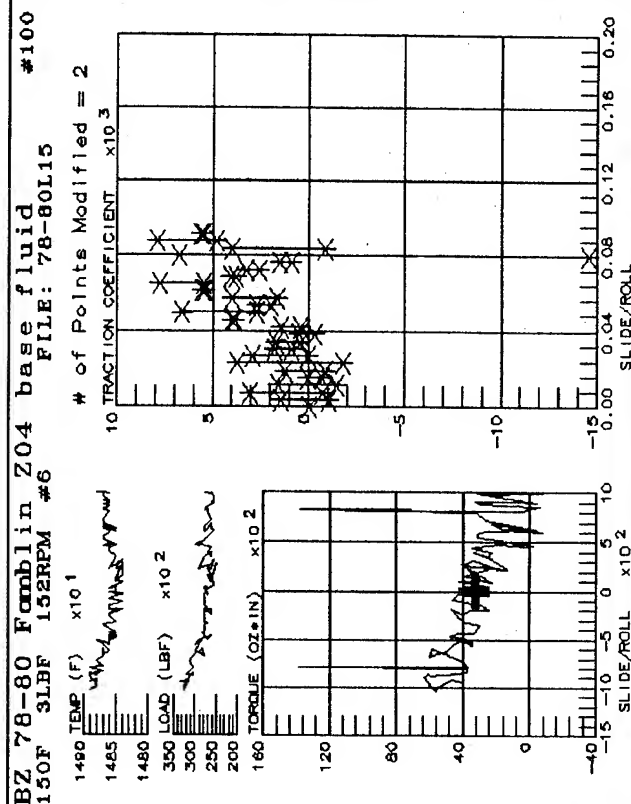
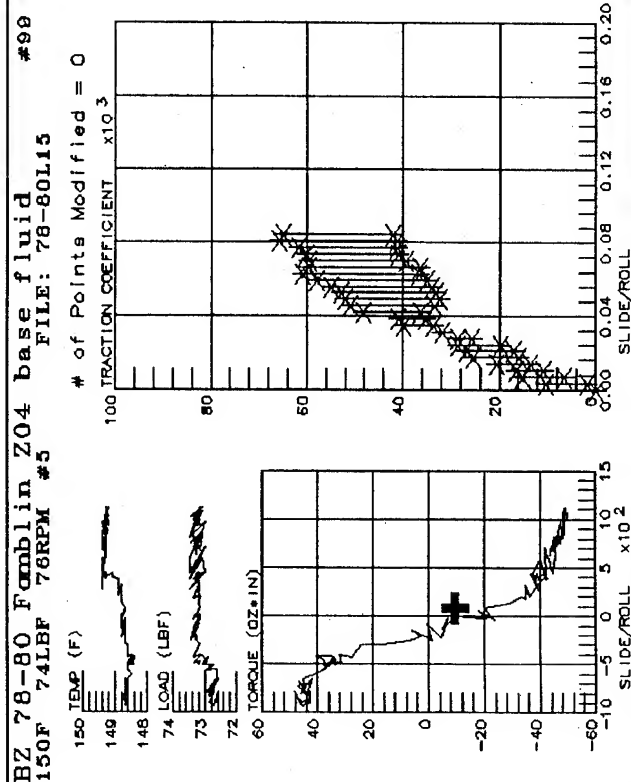
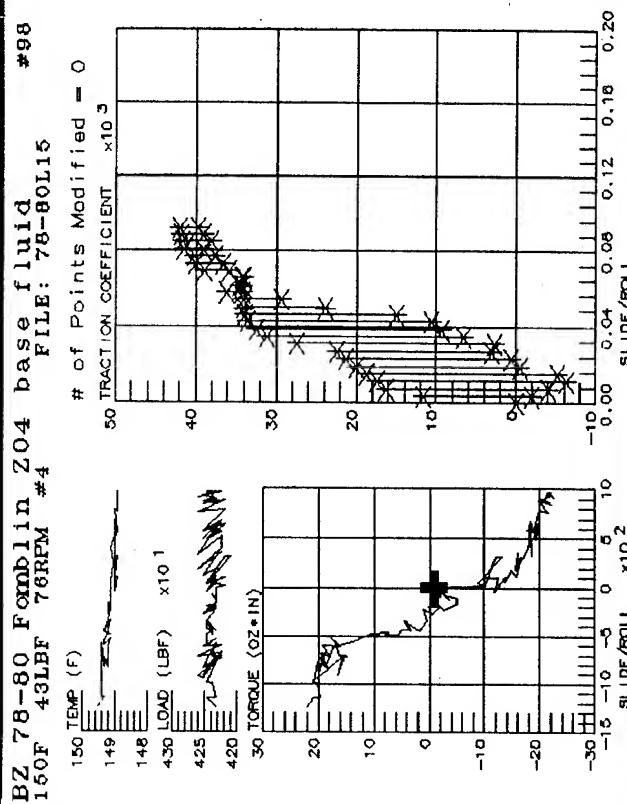
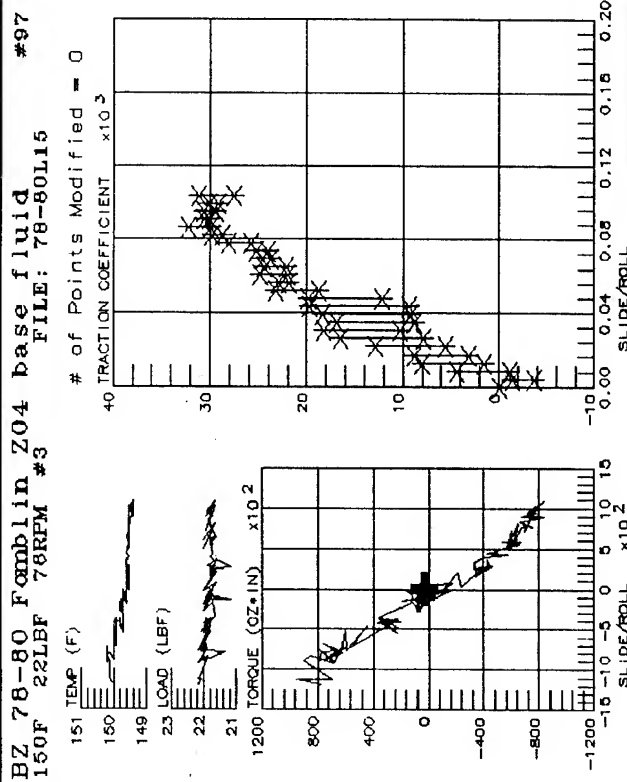
of Points Modified = 0



of Points Modified = 0



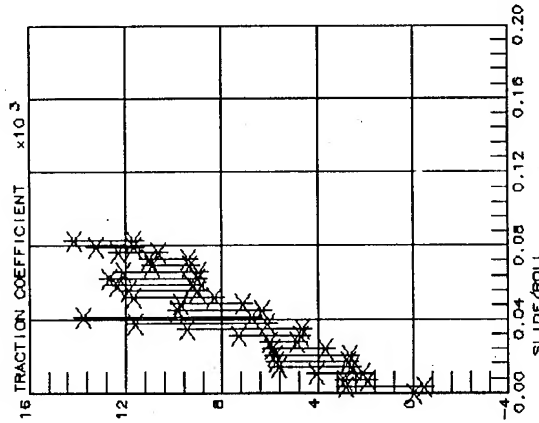
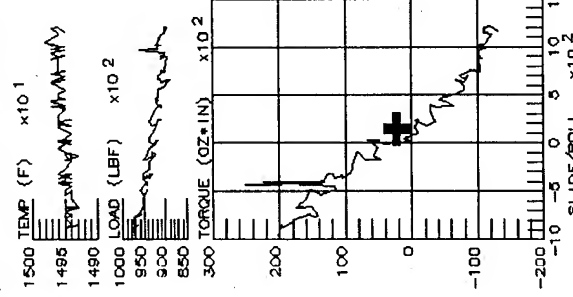
TRACTION DATA



TRACTION DATA

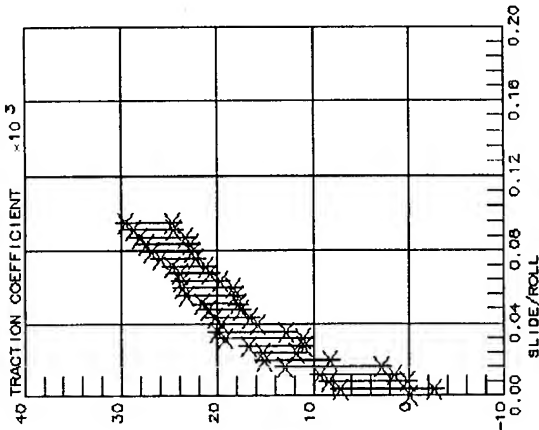
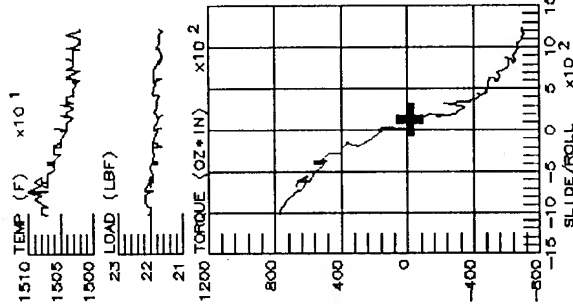
BZ 78-80 Fomblin Z04 base fluid #101
 FILE: 78-80L15
 150F 10LBF 152RPM #7

of Points Modified = 1



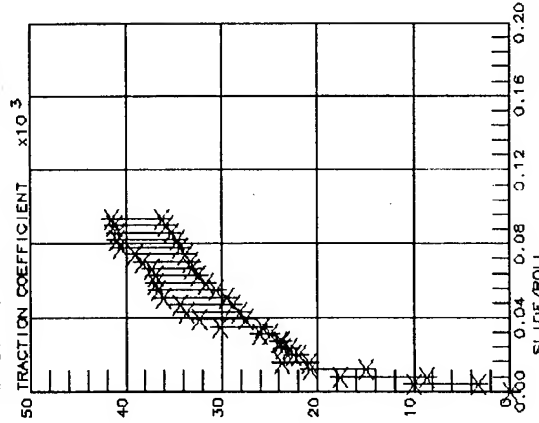
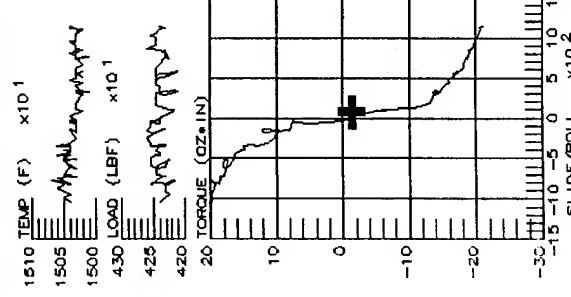
BZ 78-80 Fomblin Z04 base fluid #102
 FILE: 78-80L15
 150F 22LBF 152RPM #8

of Points Modified = 3



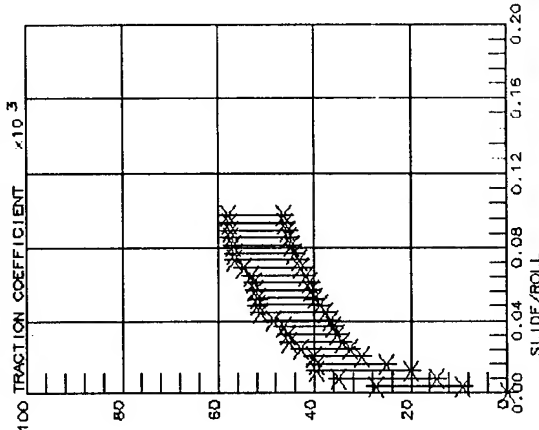
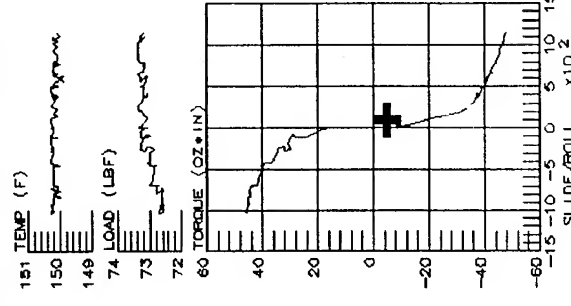
BZ 78-80 Fomblin Z04 base fluid #103
 FILE: 78-80L15
 150F 43LBF 152RPM #9

of Points Modified = 2



BZ 78-80 Fomblin Z04 base fluid #104
 FILE: 78-80L15
 150F 74LBF 152RPM #10

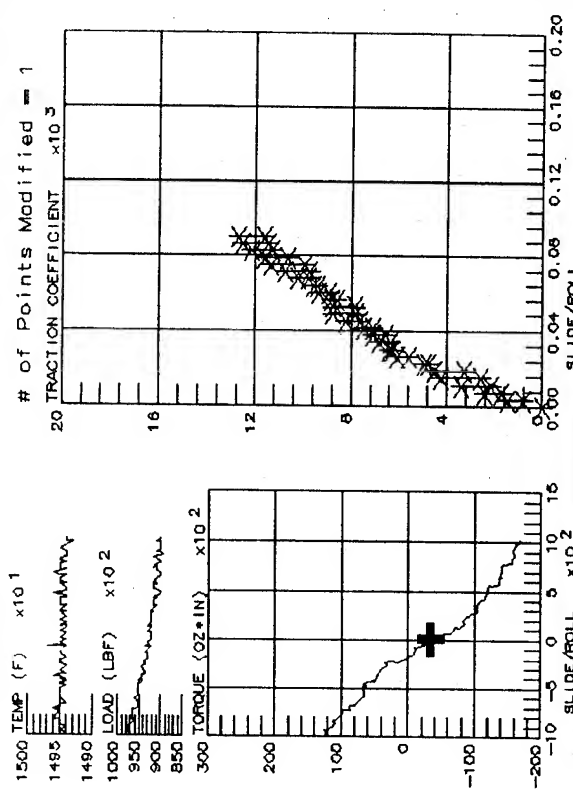
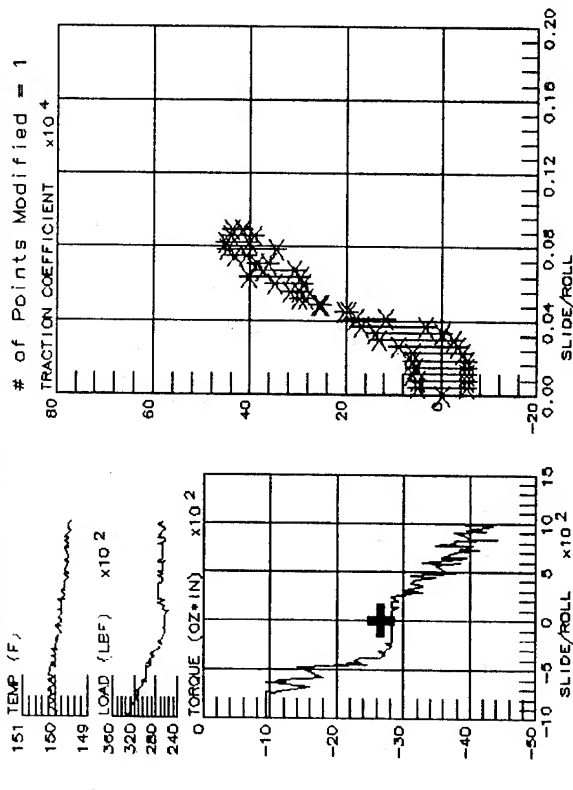
of Points Modified = 0



TRACTION DATA

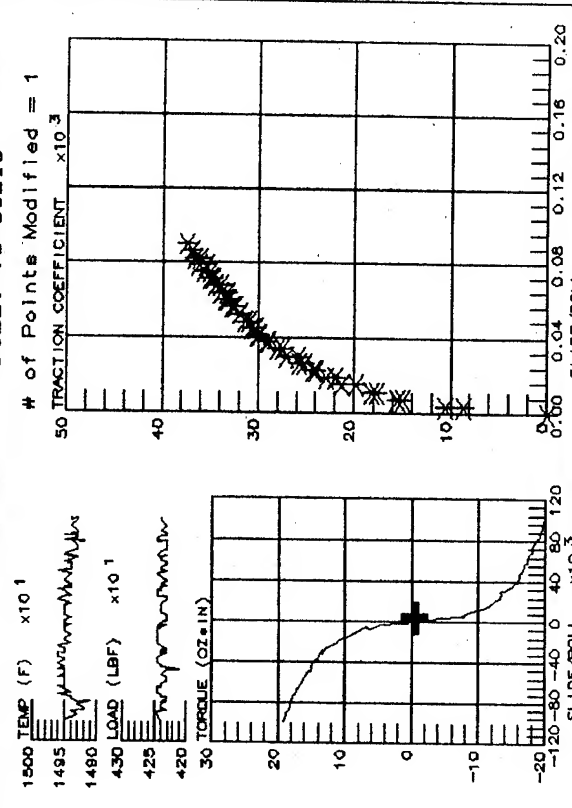
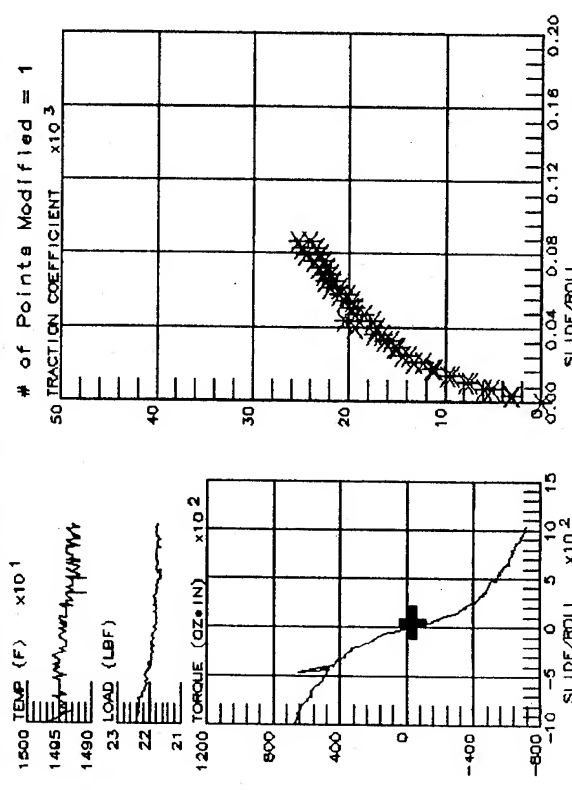
BZ 78-80 Fomblin Z04 base fluid
150F 3LBF 305RPM #11
FILE: 78-80L15

#105
of Points Modified = 1

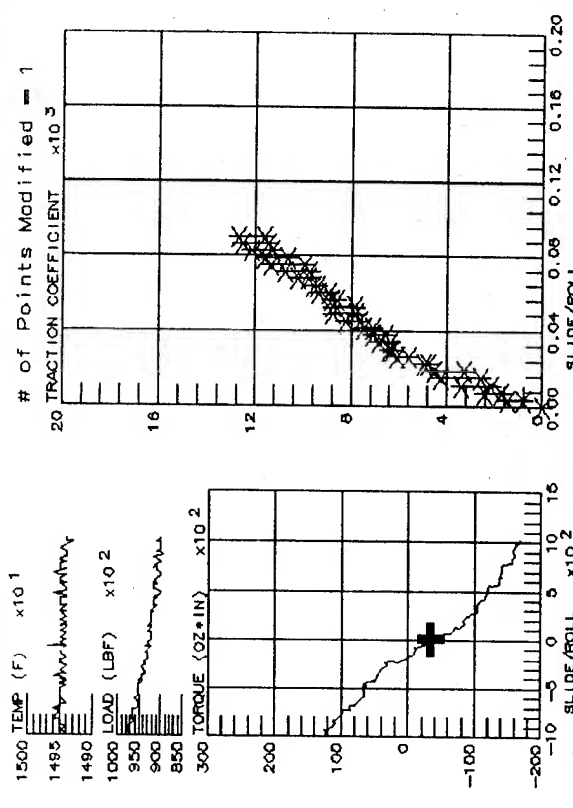
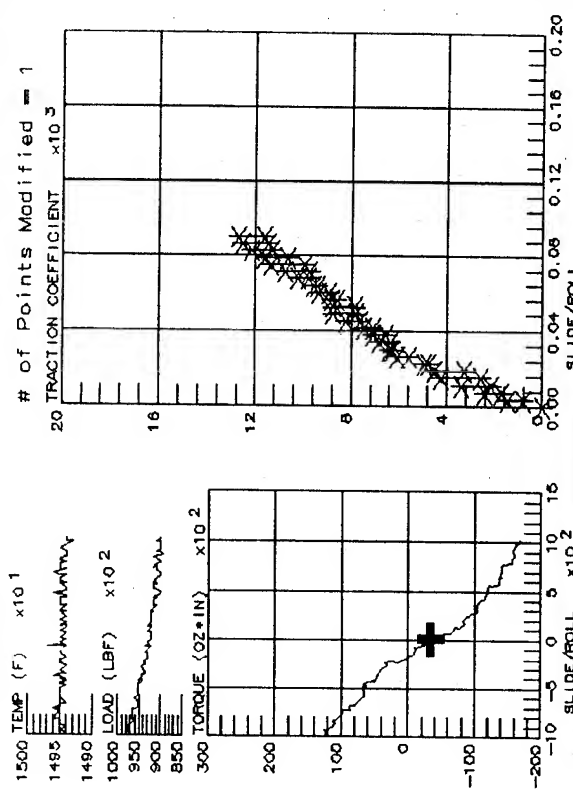


BZ 78-80 Fomblin Z04 base fluid
150F 22LBF 305RPM #13
FILE: 78-80L15

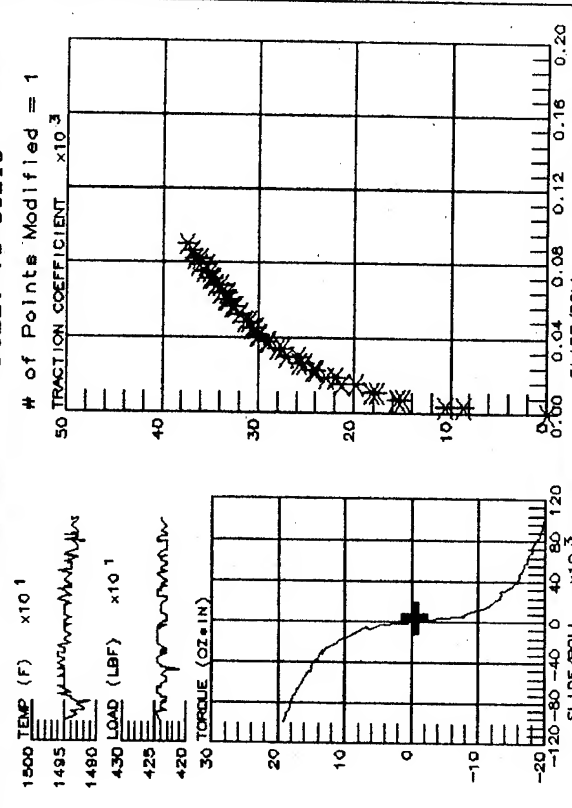
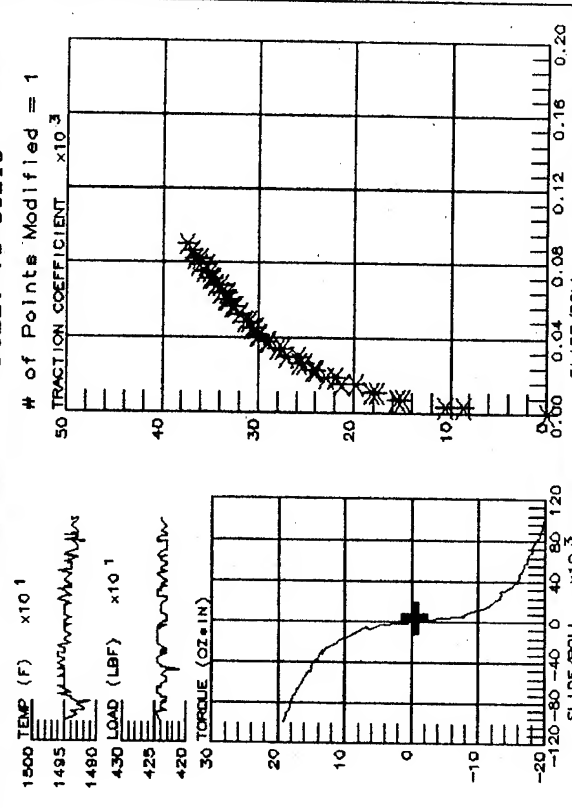
#107
of Points Modified = 1



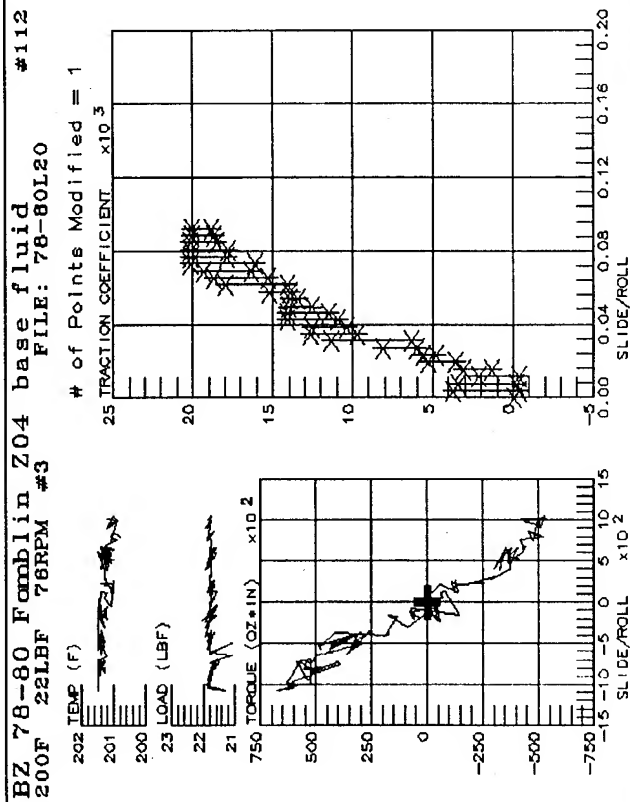
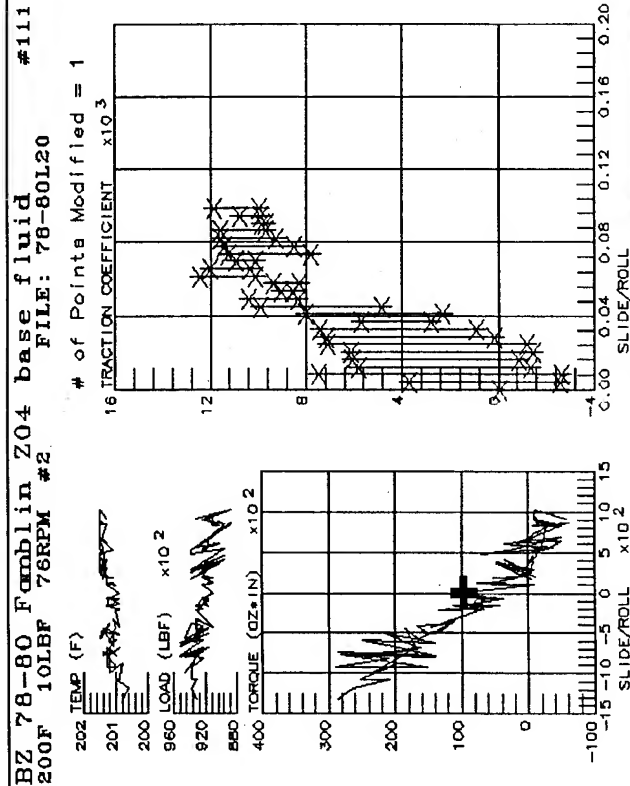
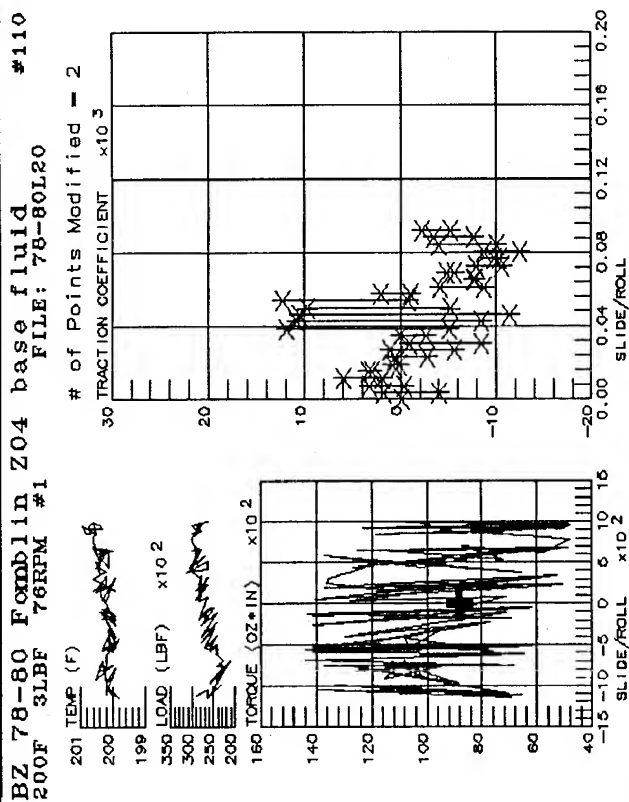
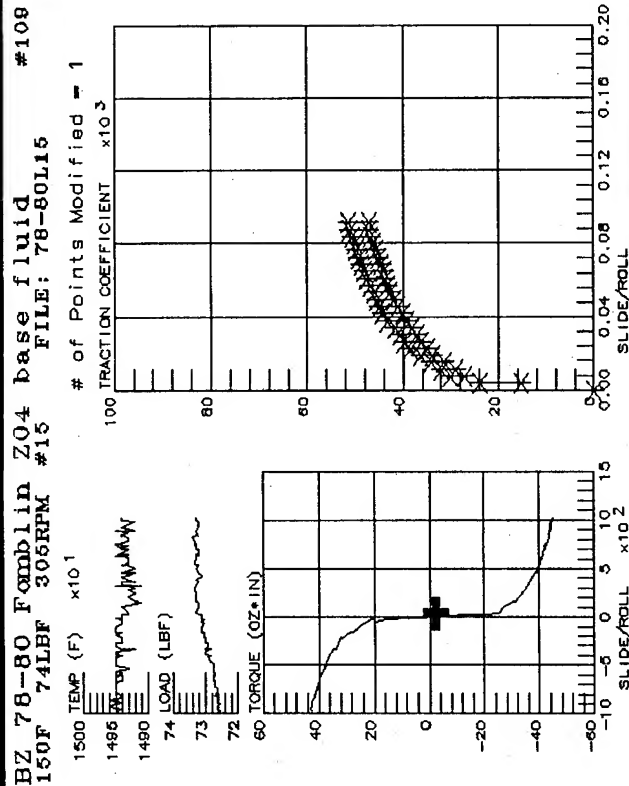
BZ 78-80 Fomblin Z04 base fluid
150F 10LBF 305RPM #12
FILE: 78-80L15



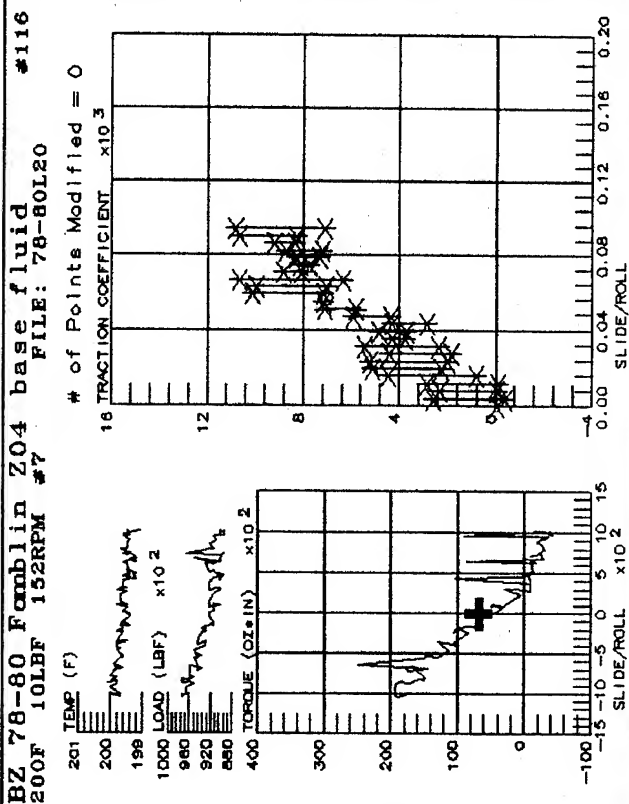
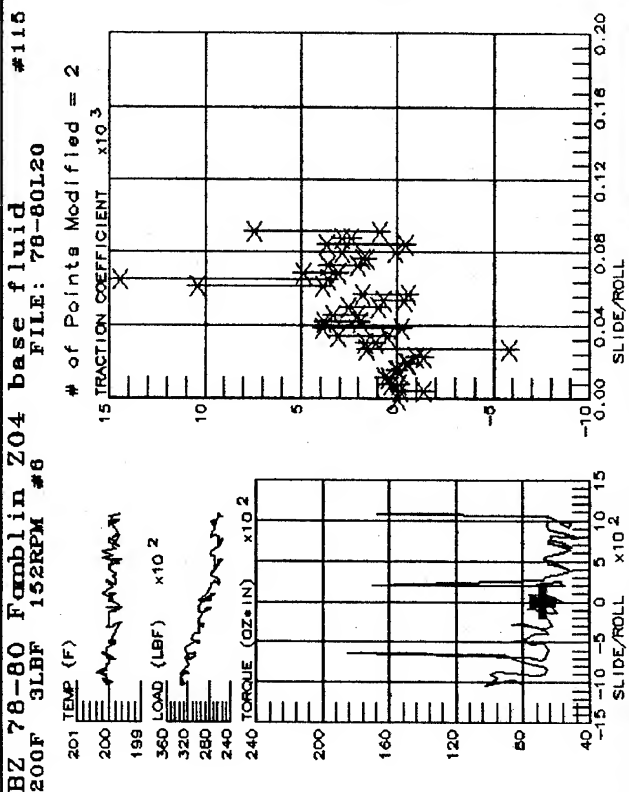
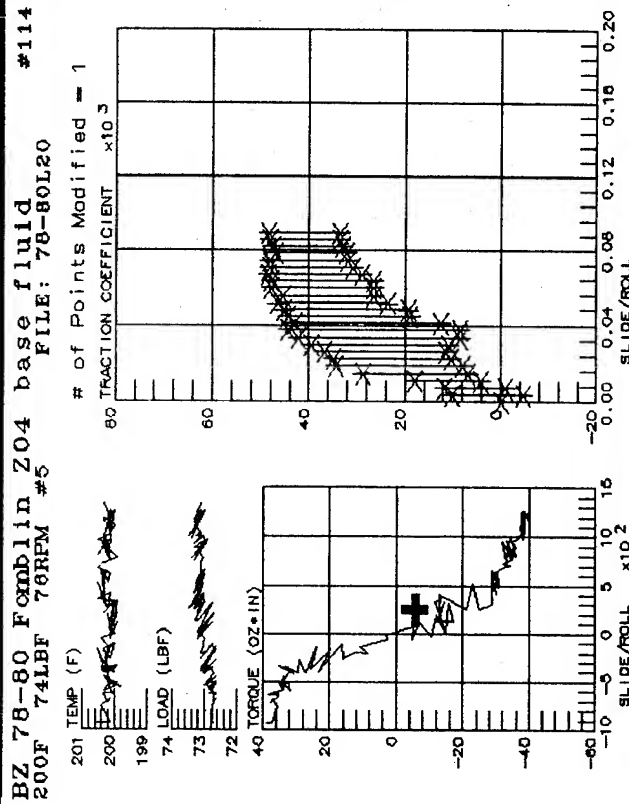
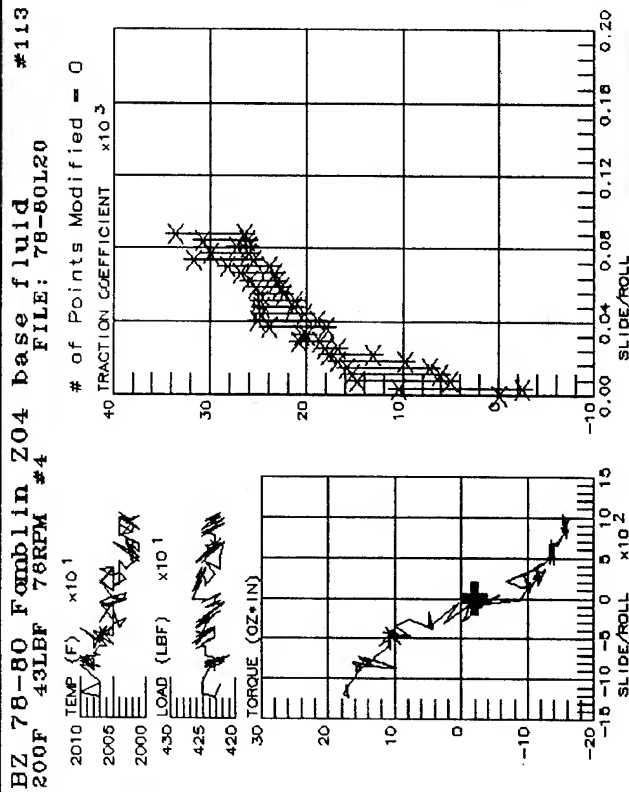
BZ 78-80 Fomblin Z04 base fluid
150F 43LBF 305RPM #14
FILE: 78-80L15



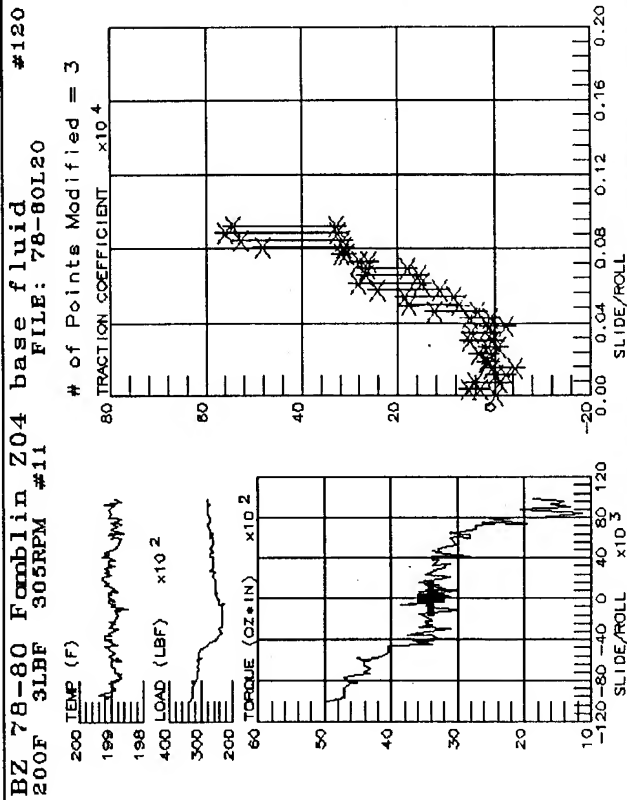
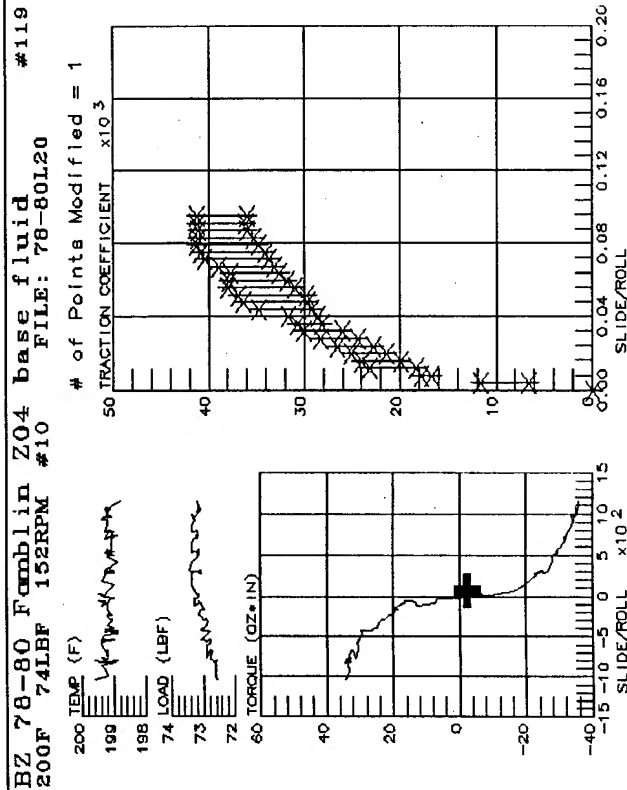
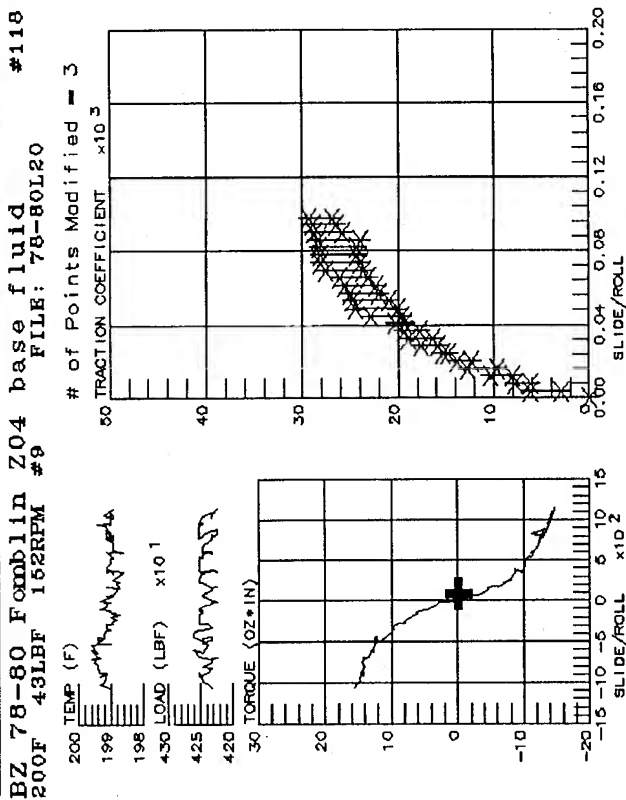
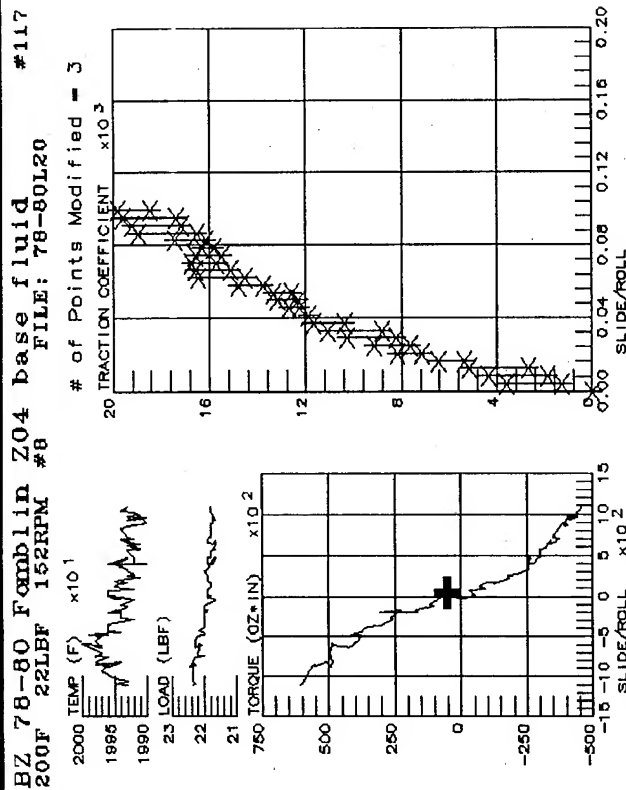
TRACTION DATA



TRACTION DATA



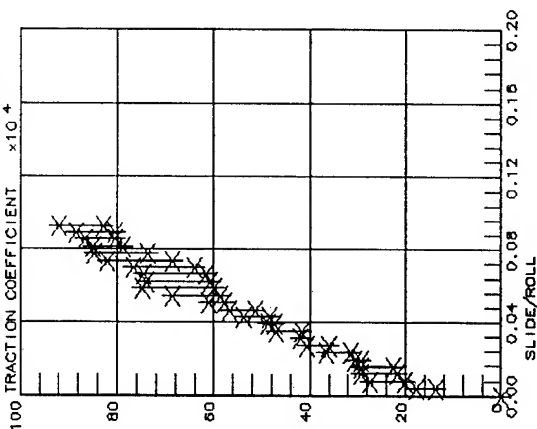
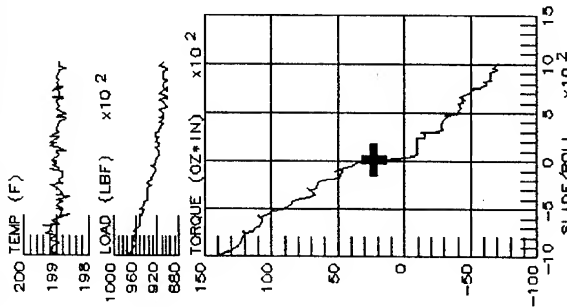
TRACTION DATA



TRACTION DATA

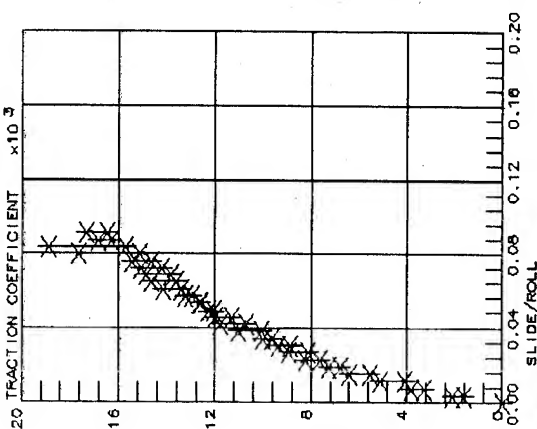
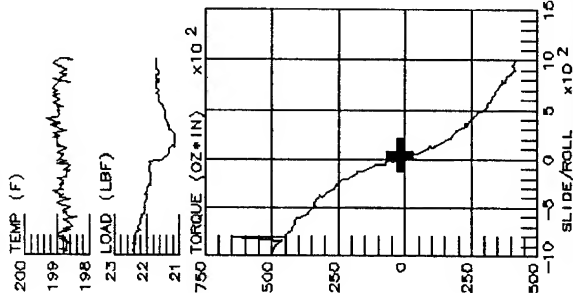
BZ 78-80 Fomblin Z04 base fluid #121
200F 10LBF 305RPM #12
FILE: 78-80L20

of Points Modified = 2



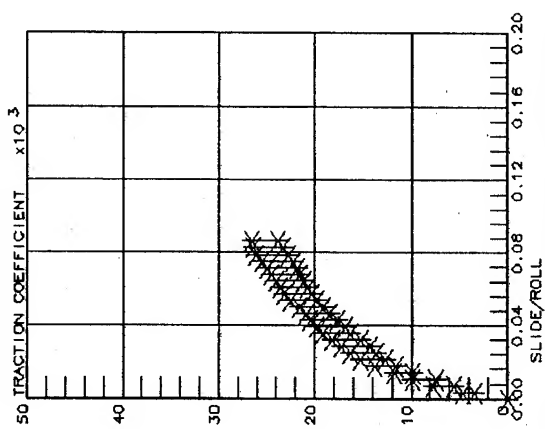
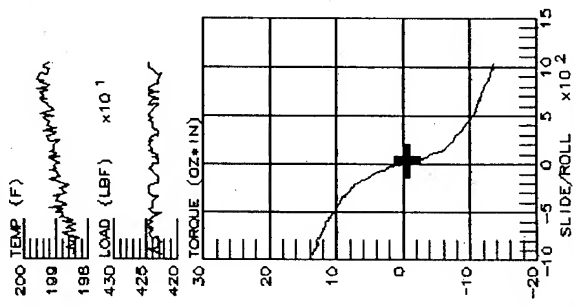
BZ 78-80 Fomblin Z04 base fluid #122
200F 22LBF 305RPM #13
FILE: 78-80L20

of Points Modified = 1



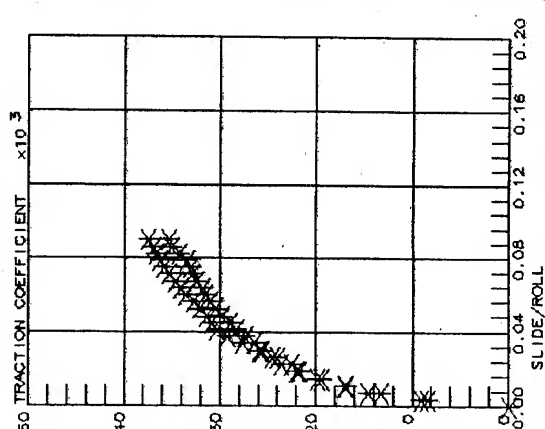
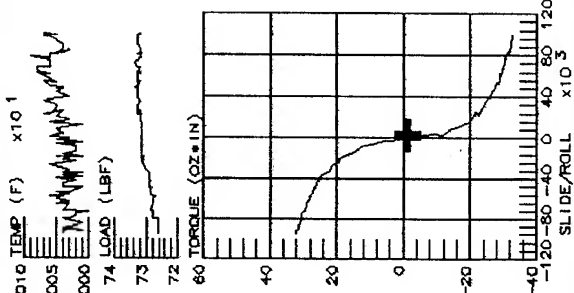
BZ 78-80 Fomblin Z04 base fluid #123
200F 43LBF 305RPM #14
FILE: 78-80L20

of Points Modified = 1



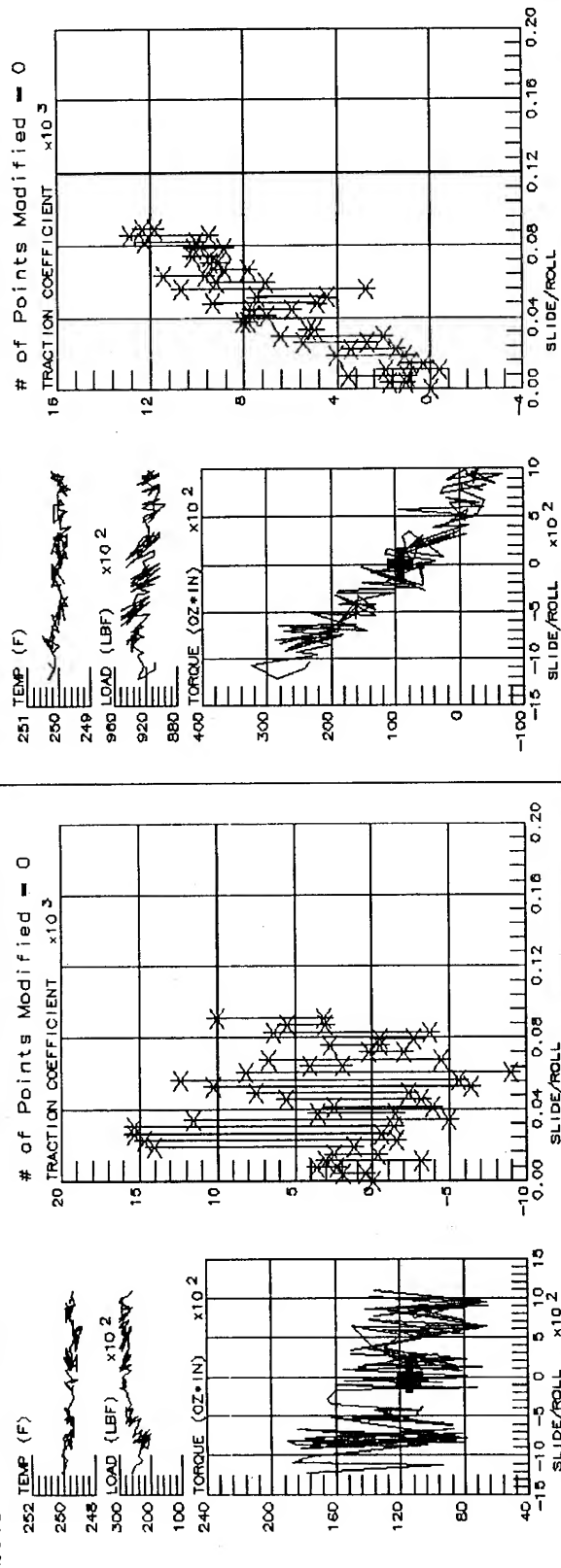
BZ 78-80 Fomblin Z04 base fluid #124
200F 74LBF 305RPM #15
FILE: 78-80L20

of Points Modified = 1

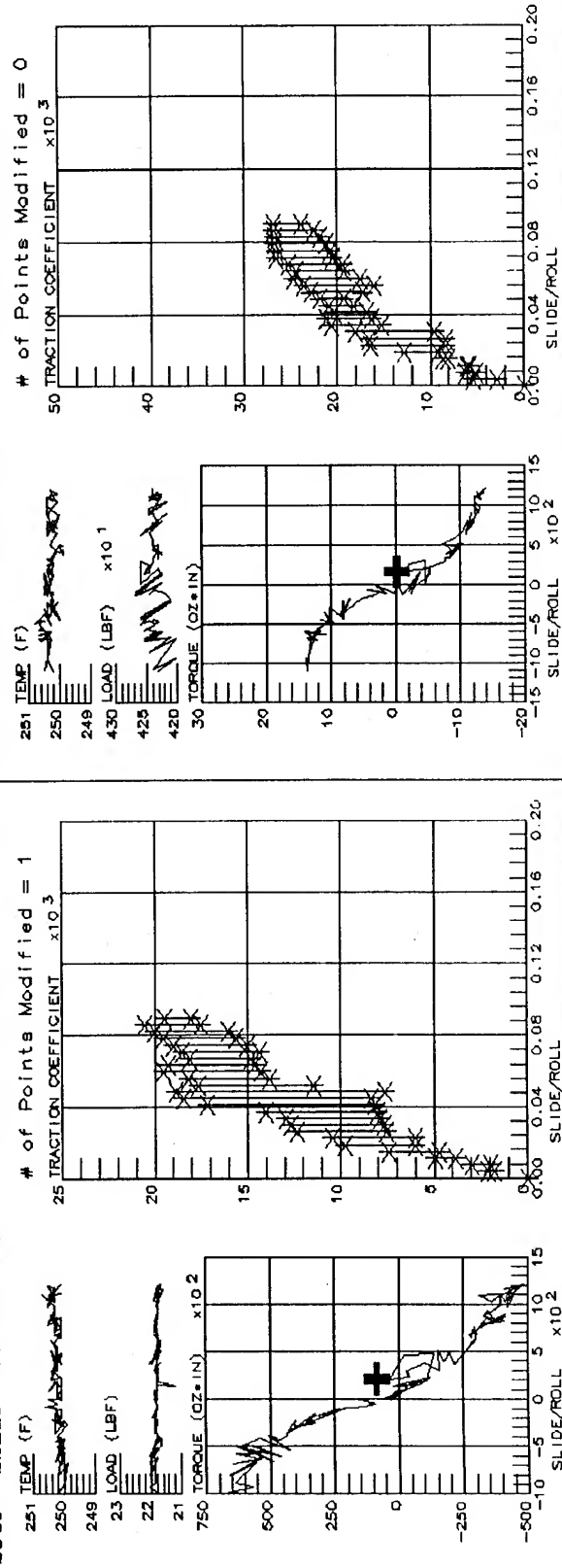


TRACTION DATA

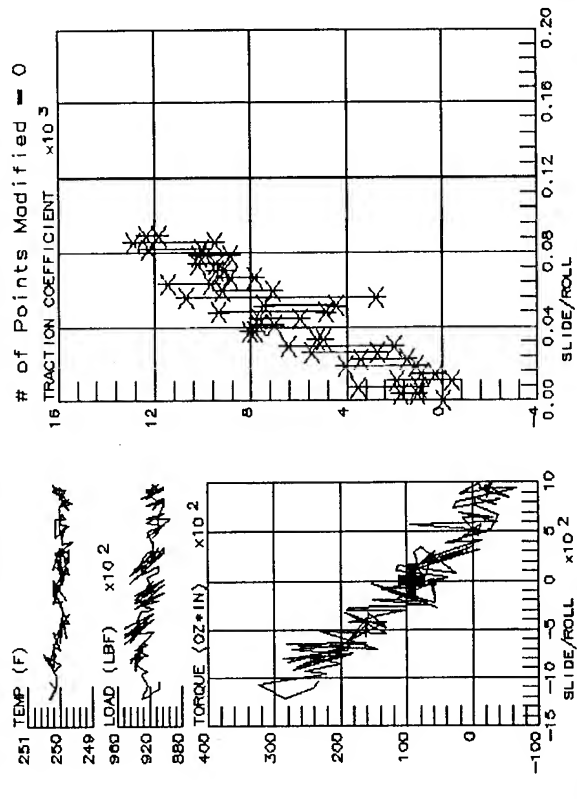
BZ 78-80 Fomblin Z04 base fluid #125
 250F 3LBF 76RPM #1 FILE: 78-80L25



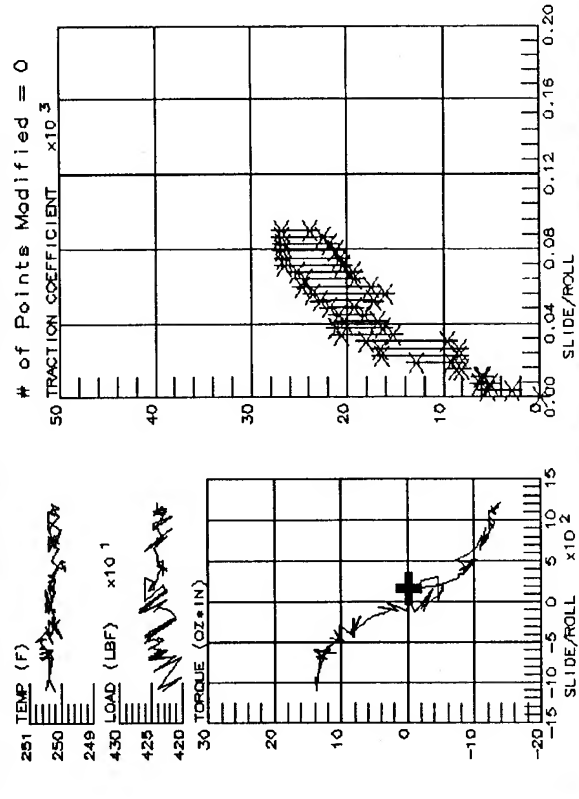
BZ 78-80 Fomblin Z04 base fluid #127
 250F 22LBF 76RPM #3 FILE: 78-80L25



BZ 78-80 Fomblin Z04 base fluid #128
 250F 10LBF 76RPM #2 FILE: 78-80L25



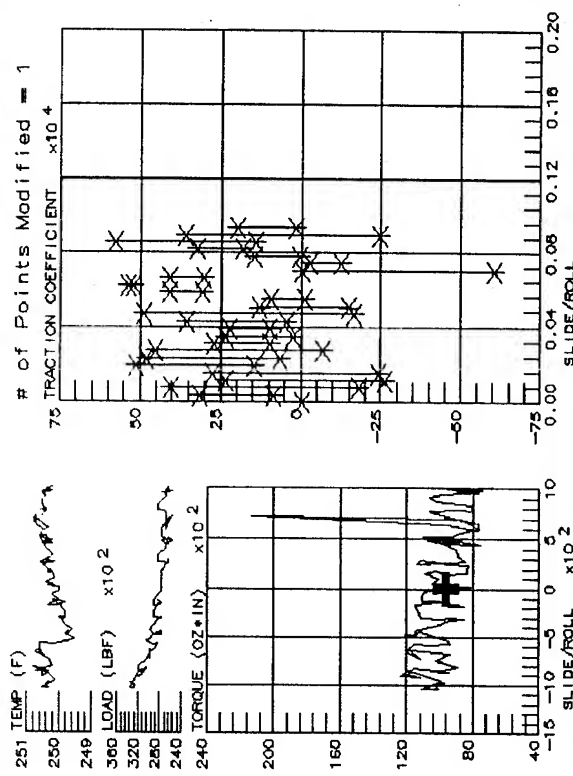
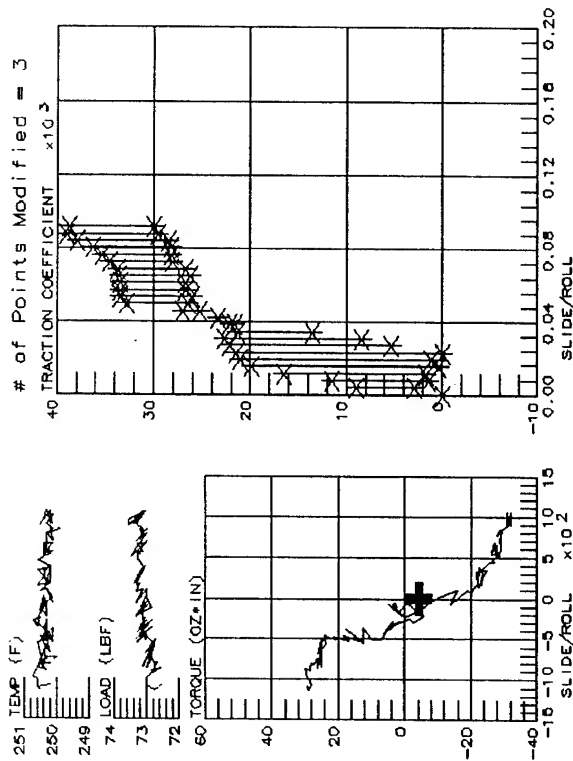
BZ 78-80 Fomblin Z04 base fluid #128
 250F 43LBF 76RPM #4 FILE: 78-80L25



TRACITION DATA

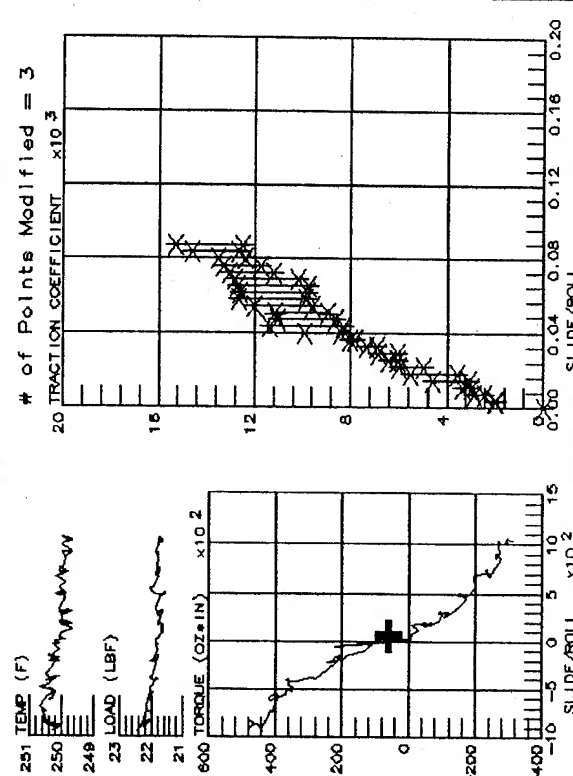
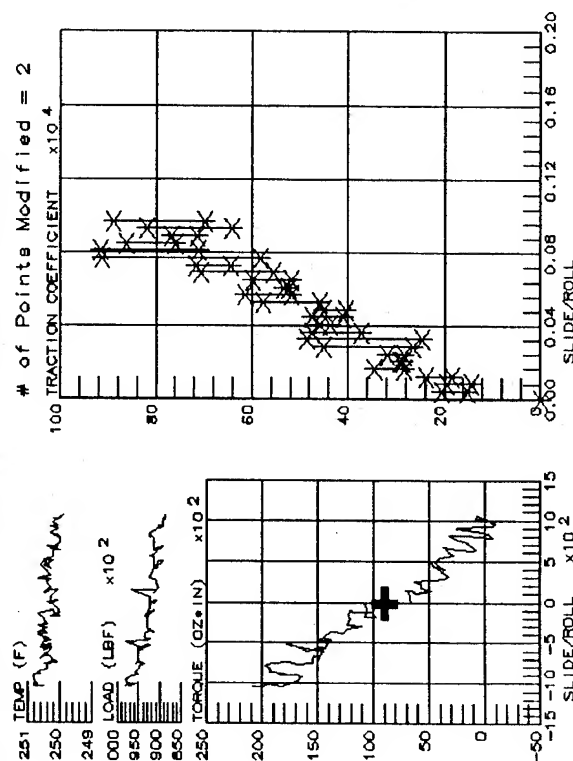
BZ 78-80 Fomblin Z04 base fluid
250F 74LBF 76RPM #5

#129
BZ 78-80 Fomblin Z04 base fluid
250F 31LBF 152RPM #6



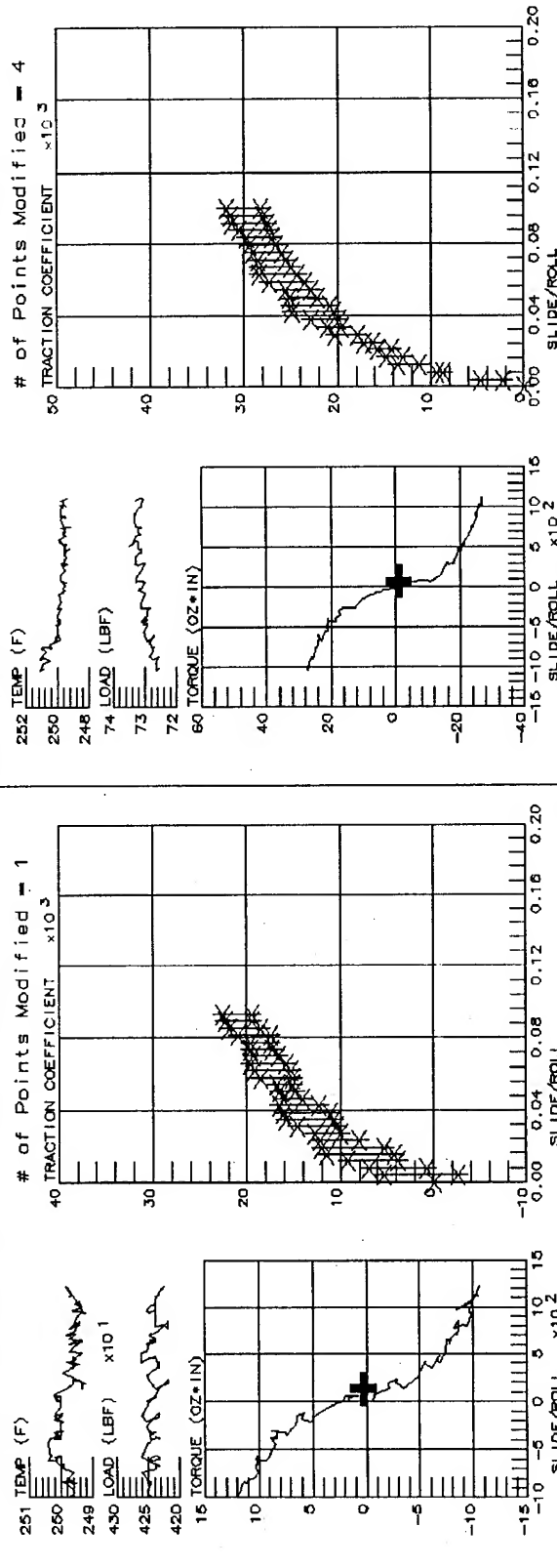
BZ 78-80 Fomblin Z04 base fluid
250F 10LBF 152RPM #7

#131
BZ 78-80 Fomblin Z04 base fluid
250F 22LBF 152RPM #8



TRACTION DATA

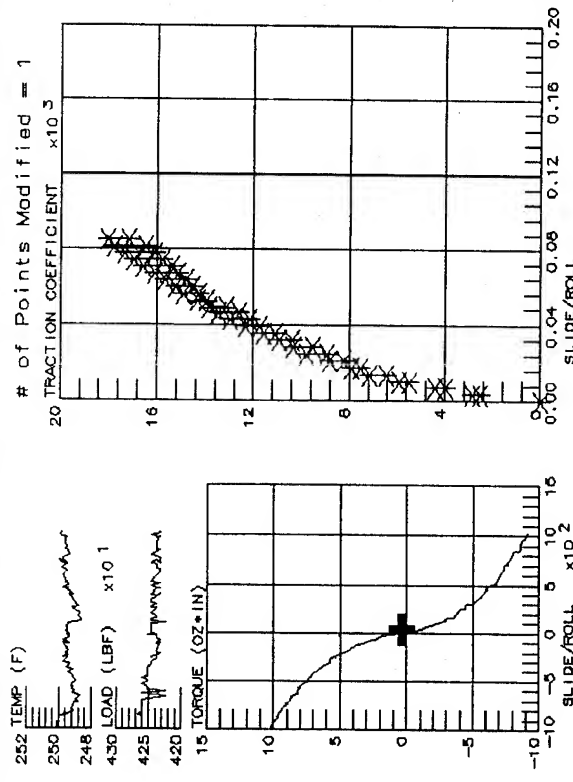
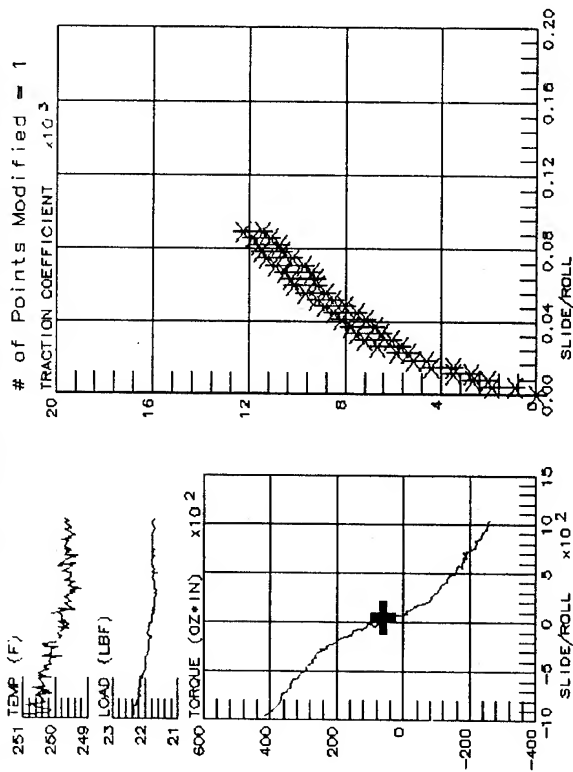
BZ 78-80 Fomblin Z04 base fluid #133
 250F 43LBF 152RPM #9
 FILE: 78-80L25



TRACTION DATA

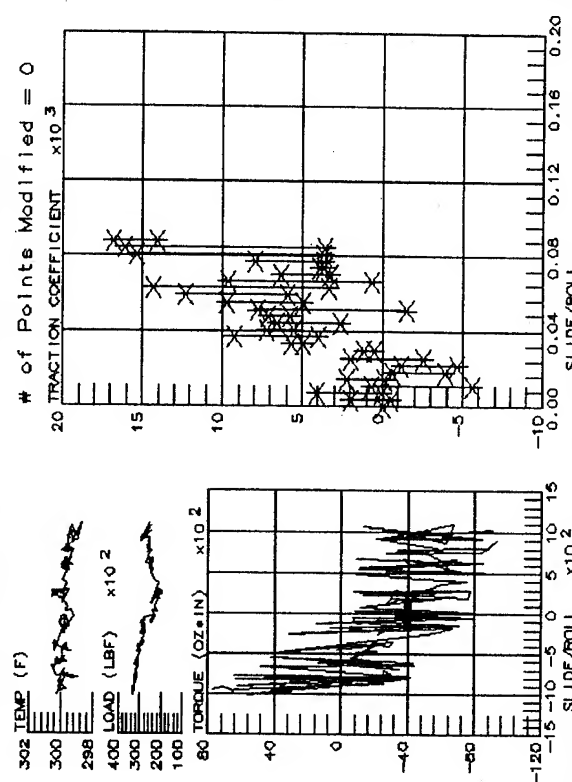
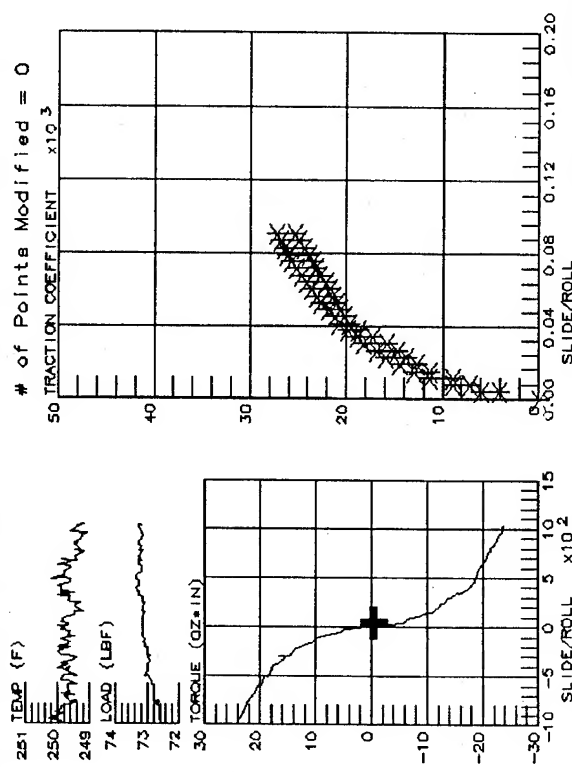
BZ 78-80 Fomblin Z04 base fluid
250F 22LBF 305RPM #13
FILE: 78-80L25

#137
BZ 78-80 Fomblin Z04 base fluid
250F 43LBF 305RPM #14
FILE: 78-80L25



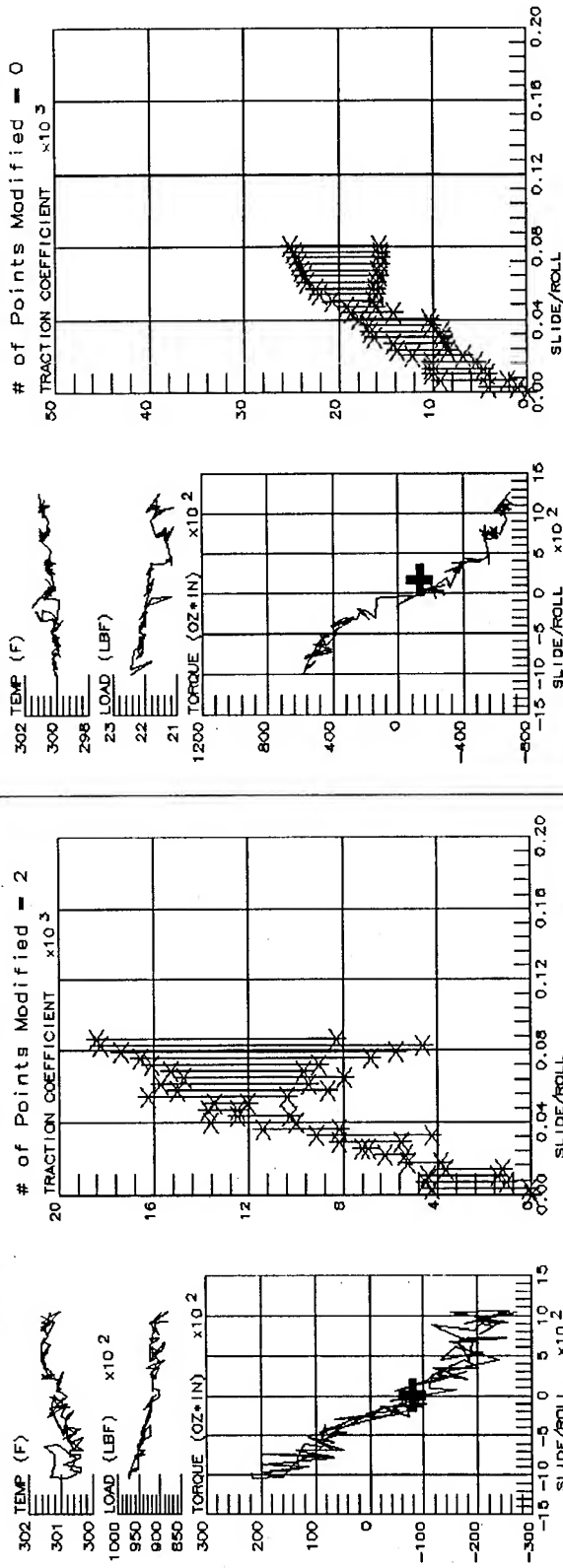
BZ 78-80 Fomblin Z04 base fluid
250F 74LBF 305RPM #15
FILE: 78-80L25

#140
BZ 78-80 Fomblin Z04 base fluid
300F 3LBF 76RPM #1
FILE: 78-80L30



TRACTION DATA

BZ 78-80 Fomblin Z04 base fluid #141
300F 10LBF 76RPM #2 FILE: 78-80L30



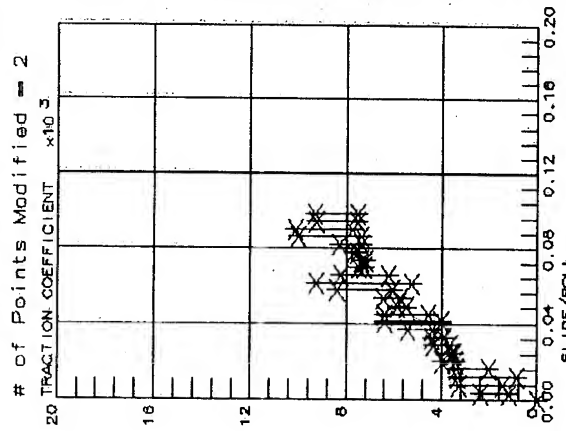
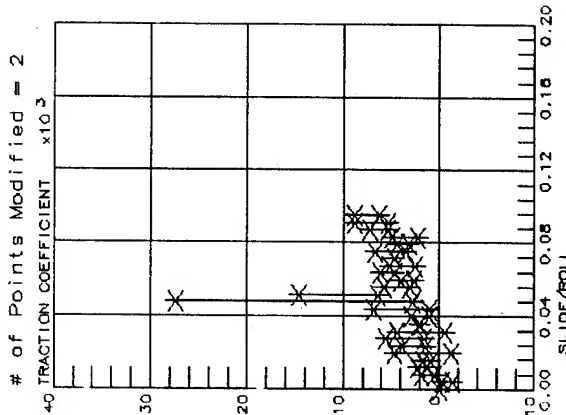
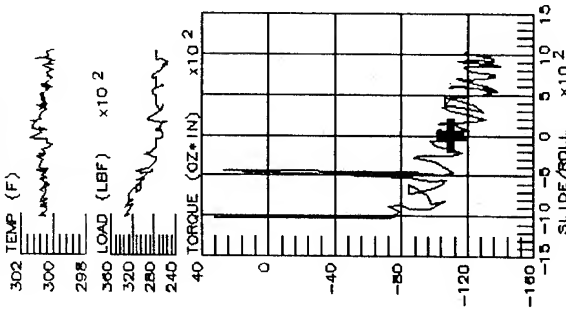
TRACTION DATA

BZ 78-80 Fomblin Z04 base fluid
300F 3LBF 152RPM #6

#145
300F 10LBF 152RPM #7
BZ 78-80 Fomblin Z04 base fluid
FILE: 78-80L30

of Points Modified = 2

of Points Modified = 2

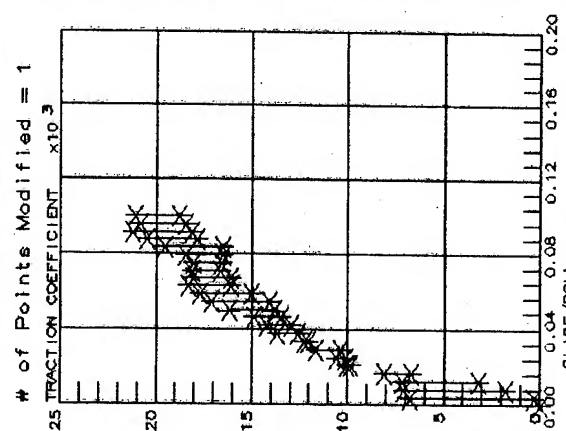
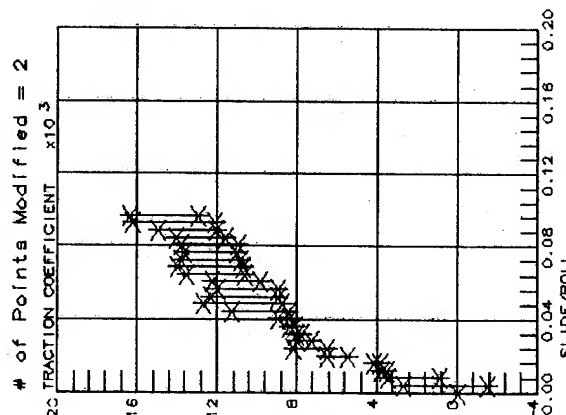
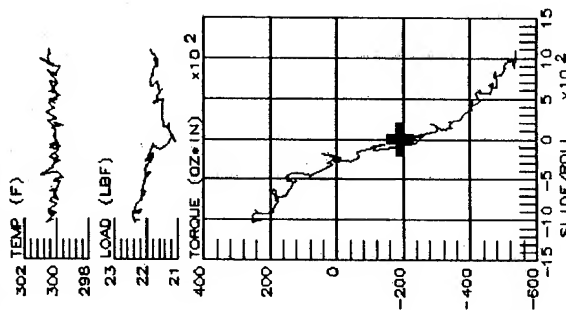


BZ 78-80 Fomblin Z04 base fluid
300F 22LBF 152RPM #8

#147
300F 43LBF 152RPM #9
BZ 78-80 Fomblin Z04 base fluid
FILE: 78-80L30

of Points Modified = 2

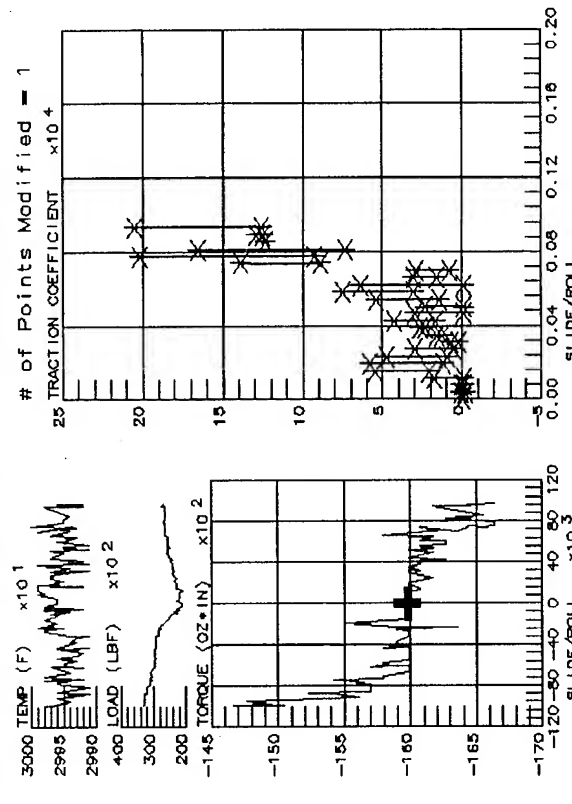
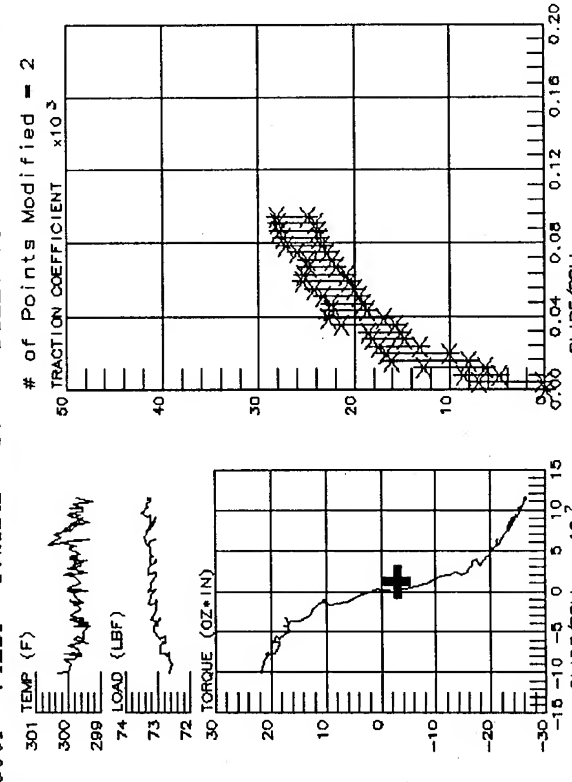
of Points Modified = 1



TRACTION DATA

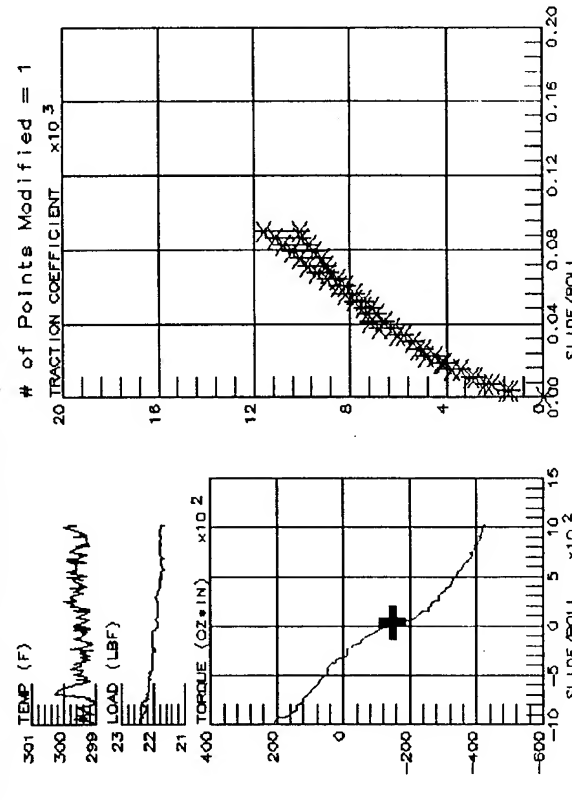
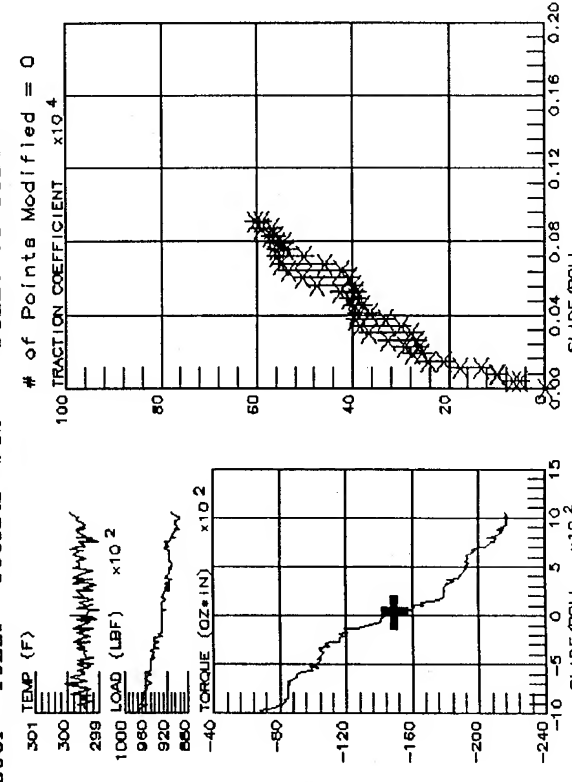
BZ 78-80 Fomblin Z04 base fluid
300F 74LBF 152RPM #10 FILE: 78-80L30

BZ 78-80 Fomblin Z04 base fluid
300F 3LBF 305RPM #11 FILE: 78-80L30



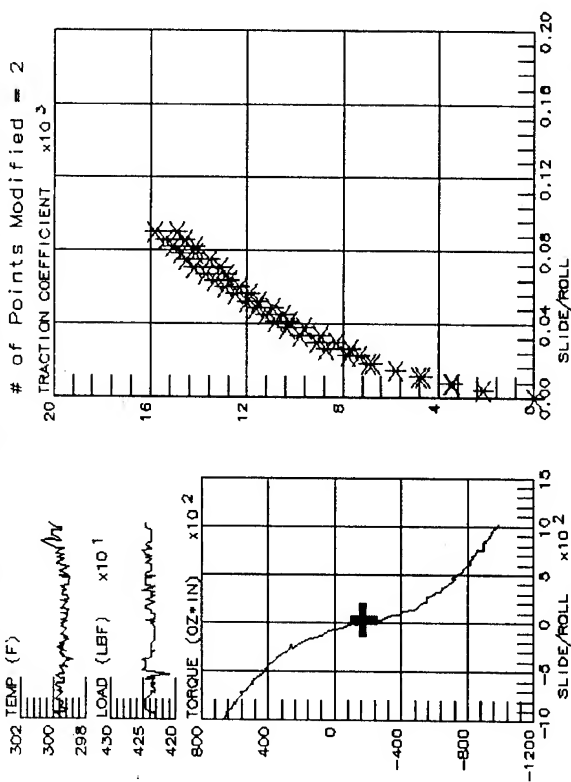
BZ 78-80 Fomblin Z04 base fluid
300F 10LBF 305RPM #12 FILE: 78-80L30

BZ 78-80 Fomblin Z04 base fluid
300F 22LBF 305RPM #13 FILE: 78-80L30

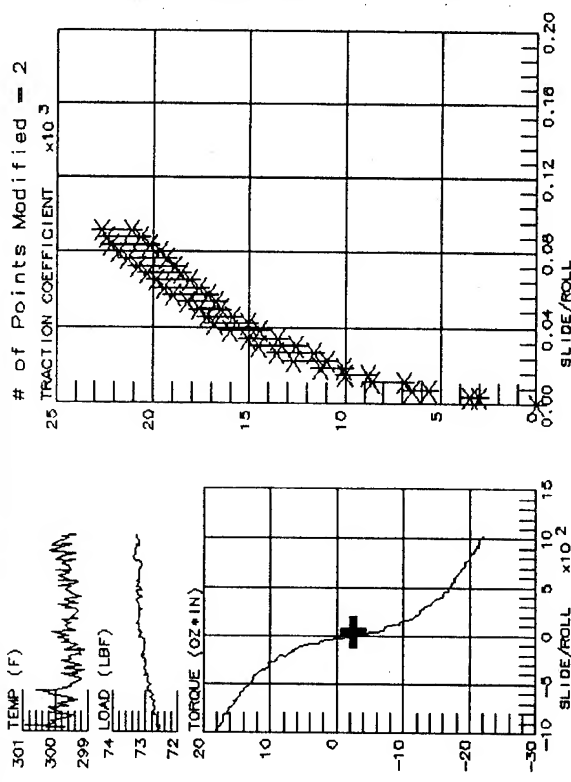


TRACTION DATA

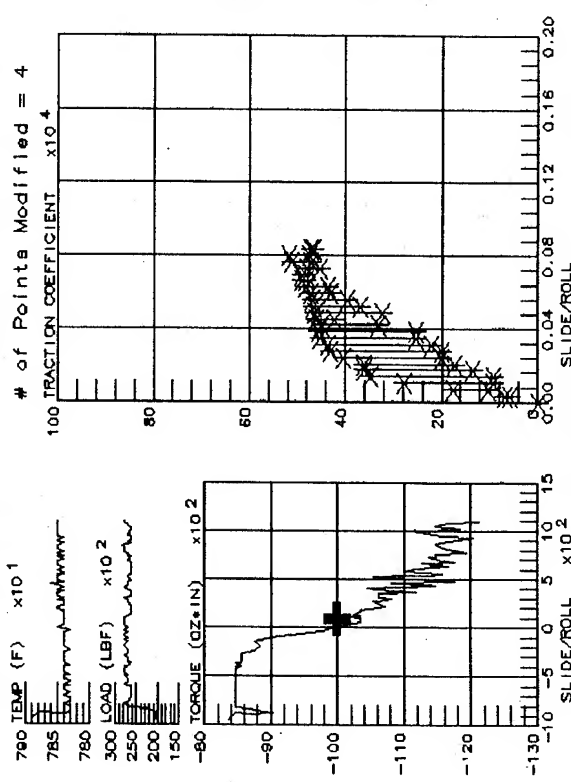
BZ 78-80 Fomblin Z04 base fluid #153
300F 43LBF 305RPM #14 FILE: 78-80L30



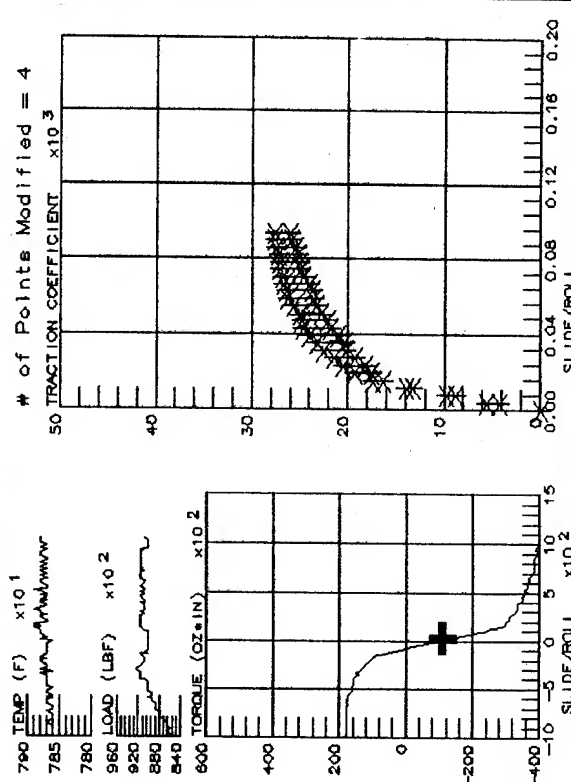
BZ 78-80 Fomblin Z04 base fluid #154
300F 74LBF 305RPM #15 FILE: 78-80L30



BZ 78-80 Fomblin Z04 base fluid #155
80F 3LBF 1260RPM #1 FILE: 78-80M08



BZ 78-80 Fomblin Z04 base fluid #156
80F 10LBF 1260RPM #2 FILE: 78-80M08

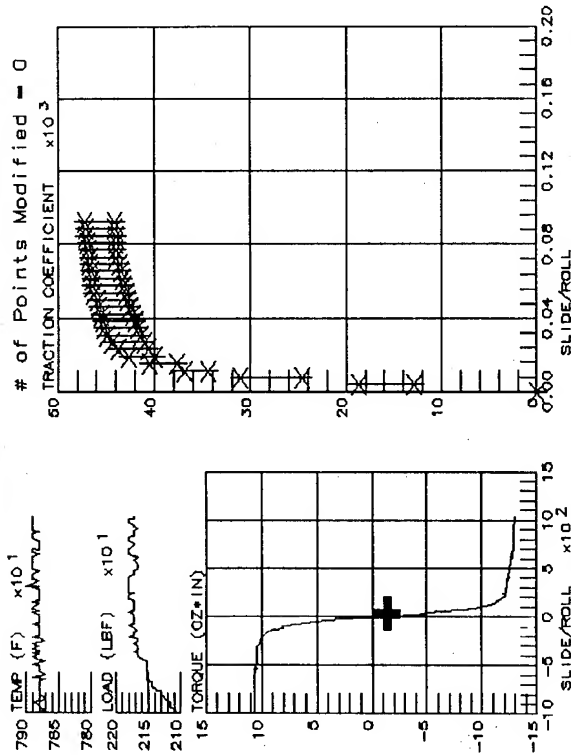


TRACTION DATA

BZ 78-80 Fomblin Z04 base fluid
80F 22LBF 1260RPM #3 FILE: 78-80M08

#157

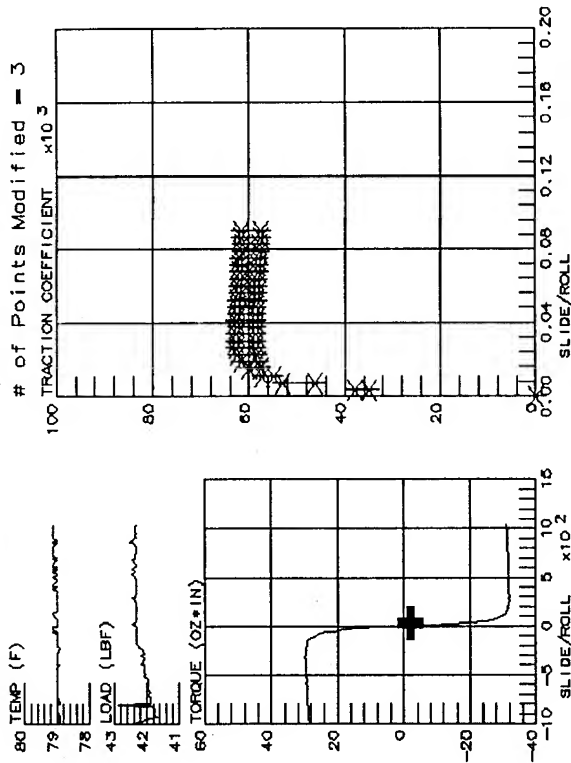
of Points Modified = 0



BZ 78-80 Fomblin Z04 base fluid
80F 43LBF 1260RPM #4 FILE: 78-80M08

#158

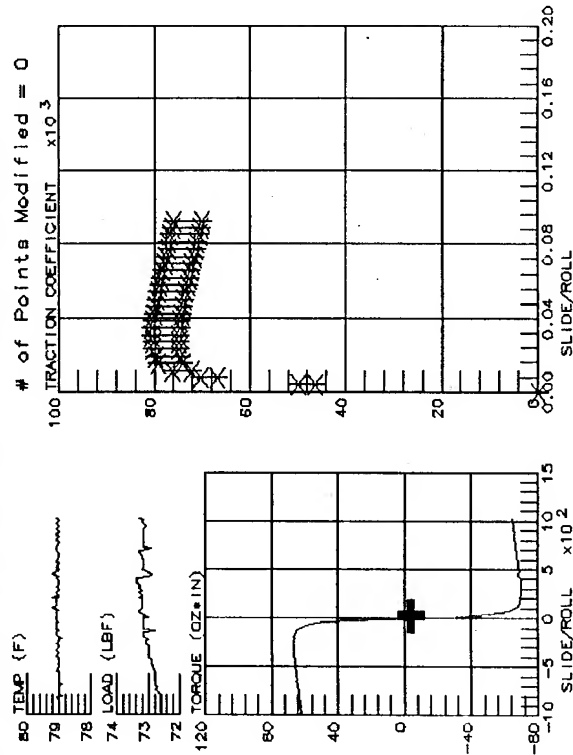
of Points Modified = 3



BZ 78-80 Fomblin Z04 base fluid
80F 74LBF 1260RPM #5 FILE: 78-80M08

#159

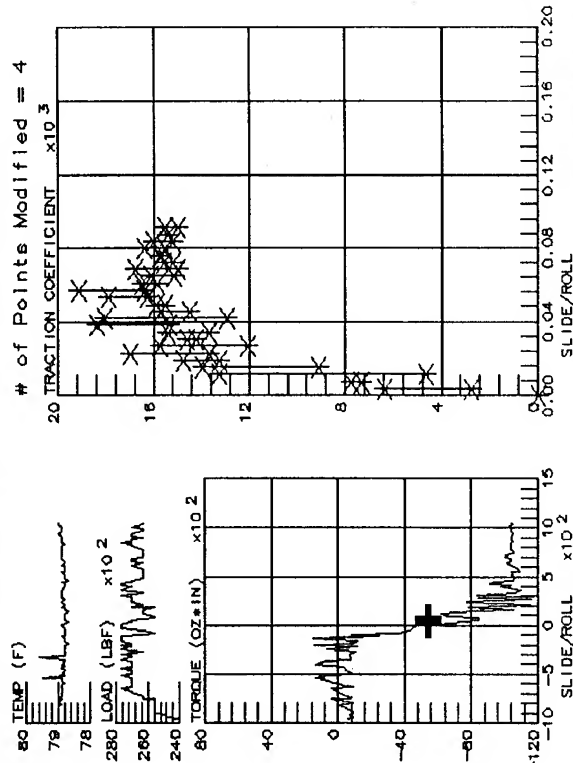
of Points Modified = 0



BZ 78-80 Fomblin Z04 base fluid
80F 3LBF 2559RPM #6 FILE: 78-80M08

#160

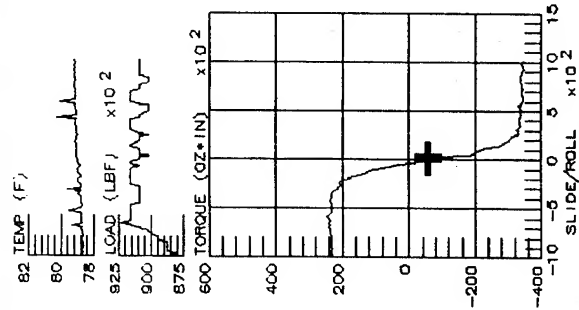
of Points Modified = 4



TRACTION DATA

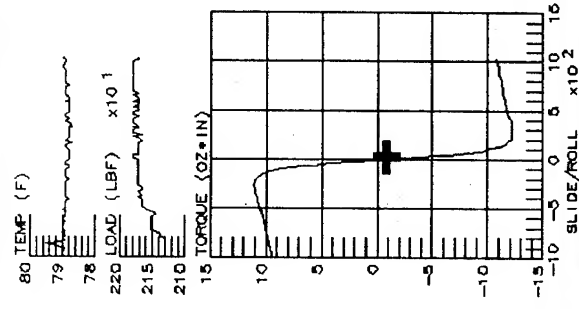
BZ 78-80 Fomblin Z04 base fluid #161
80F 10LBF 2559RPM #7
FILE: 78-80M08

of Points Modified = 1



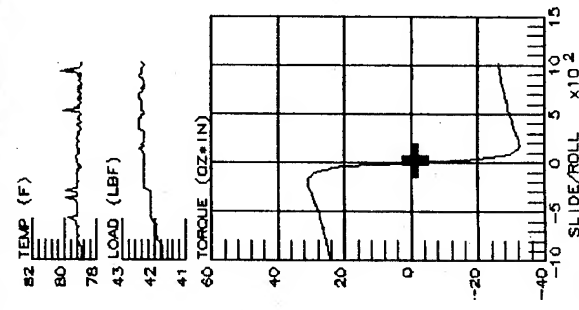
BZ 78-80 Fomblin Z04 base fluid #162
80F 22LBF 2559RPM #8
FILE: 78-80M08

of Points Modified = 3



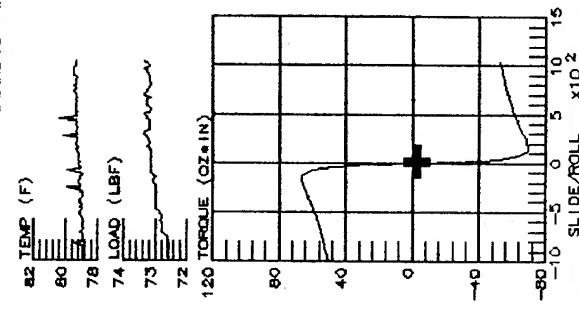
BZ 78-80 Fomblin Z04 base fluid #163
80F 43LBF 2559RPM #9
FILE: 78-80M08

of Points Modified = 0



BZ 78-80 Fomblin Z04 base fluid #164
80F 74LBF 2559RPM #10
FILE: 78-80M08

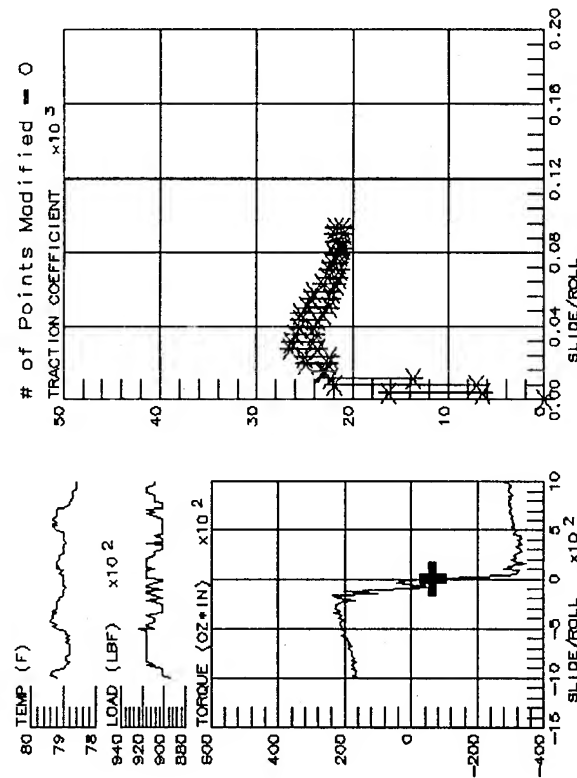
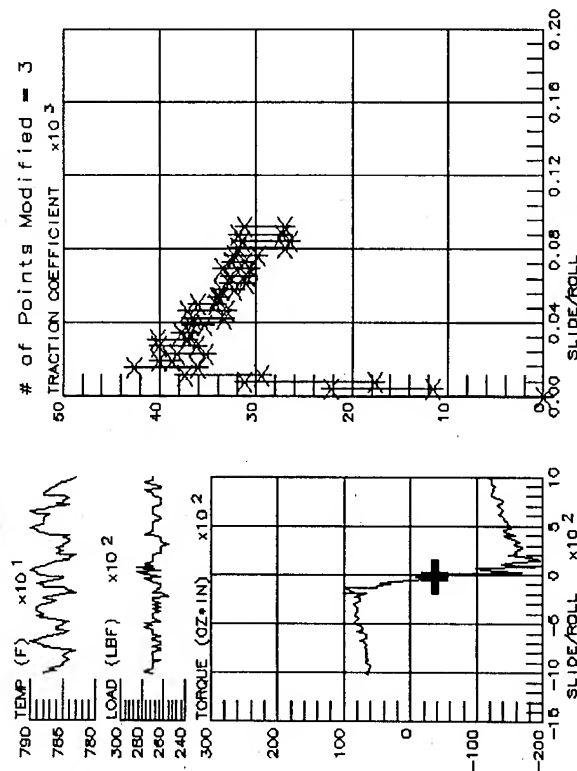
of Points Modified = 0



TRACTION DATA

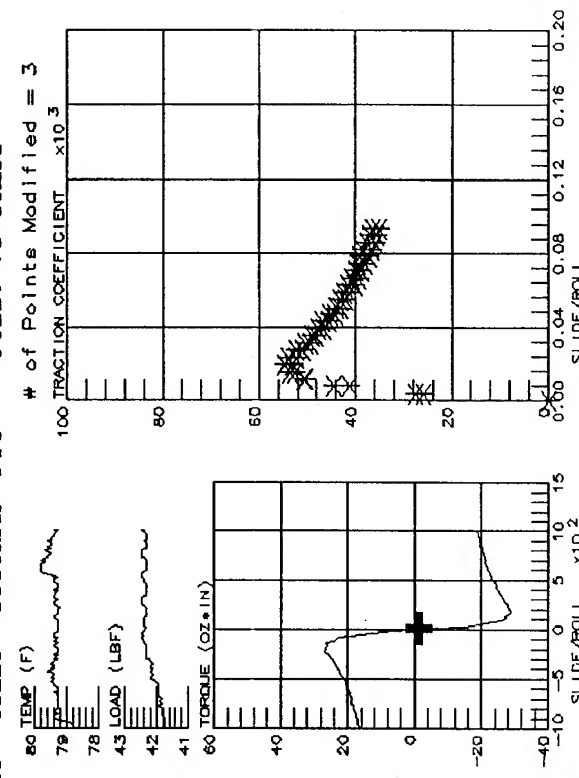
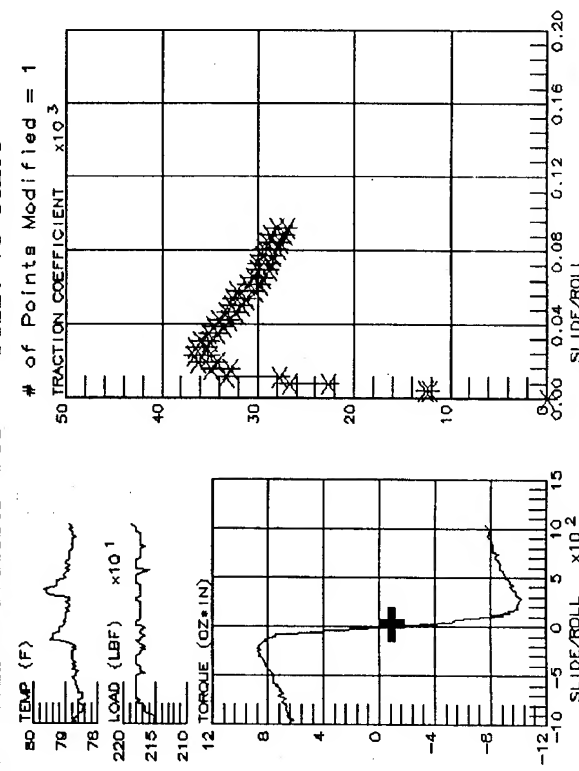
BZ 78-80 Foamblin Z04 base fluid
80F 3LBF 5080RPM #11 FILE: 78-80M08

BZ 78-80 Foamblin Z04 base fluid
80F 10LBF 5080RPM #12 FILE: 78-80M08

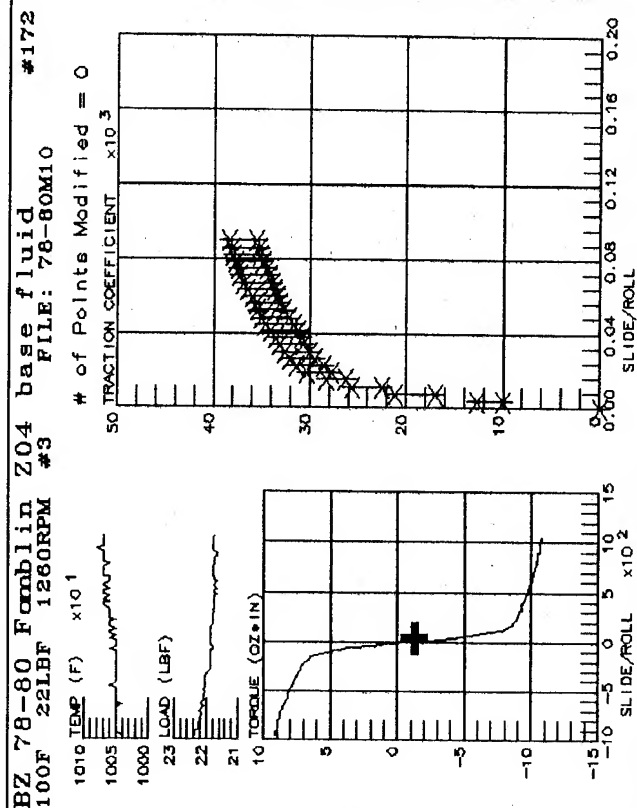
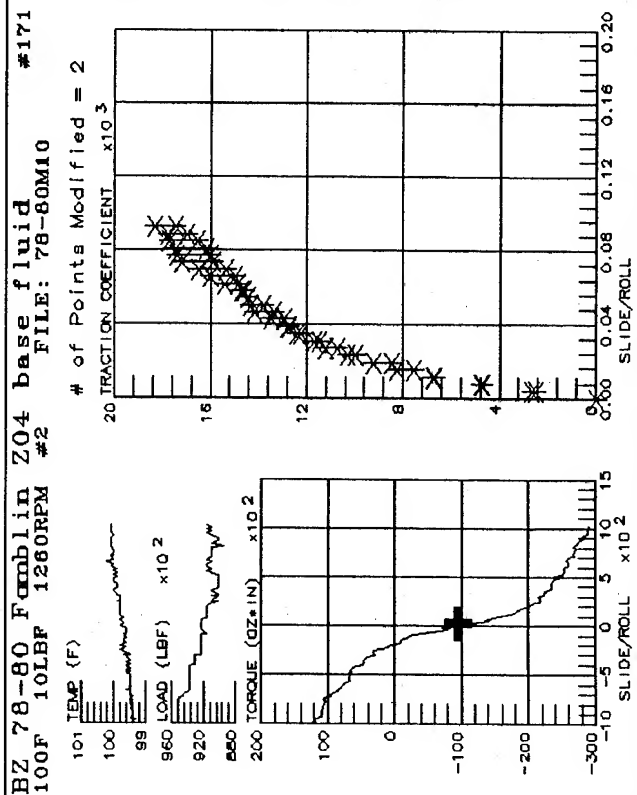
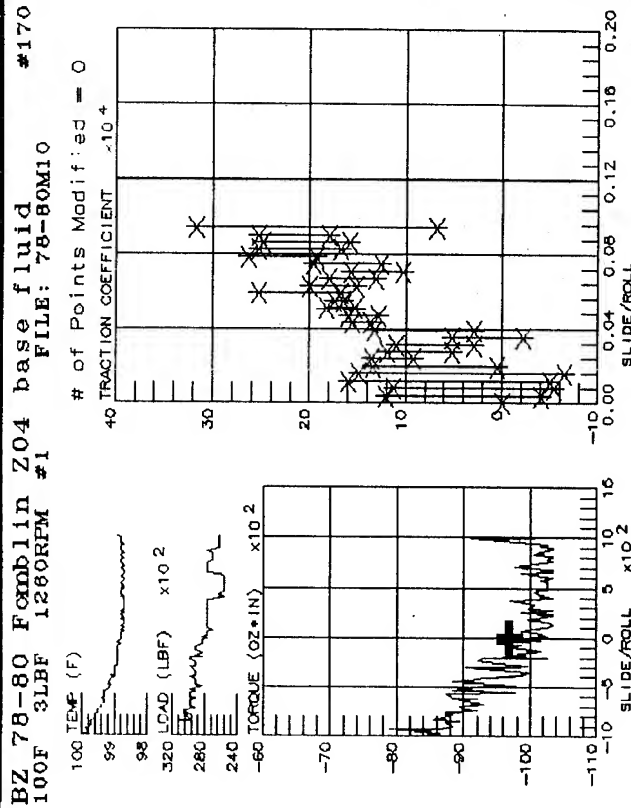
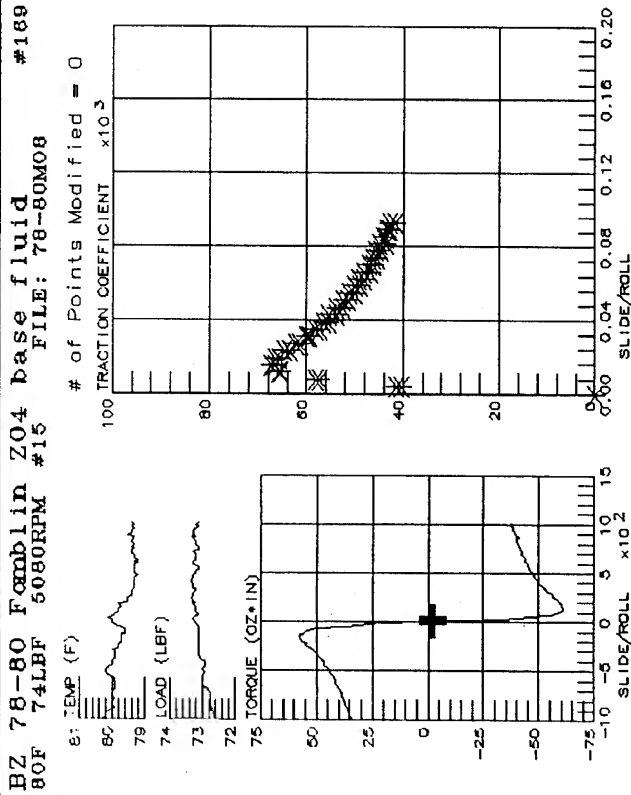


BZ 78-80 Foamblin Z04 base fluid
80F 22LBF 5080RPM #13 FILE: 78-80M08

BZ 78-80 Foamblin Z04 base fluid
80F 43LBF 5080RPM #14 FILE: 78-80M08



TRACTION DATA

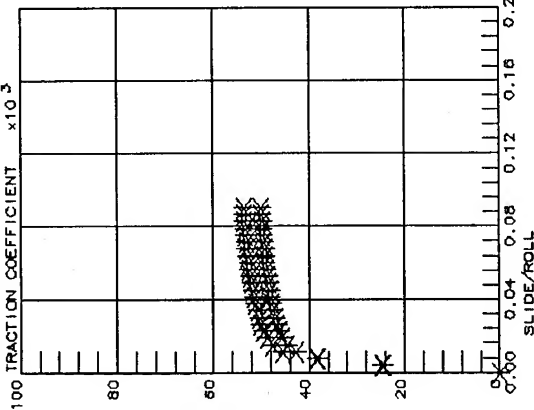
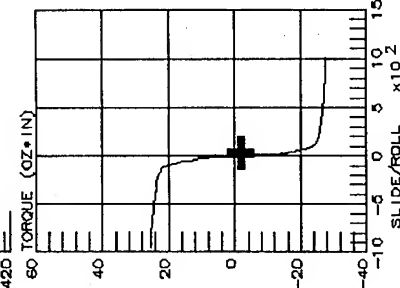
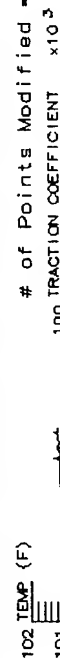


TRACTION DATA

BZ 78-80 Fomblin Z04 base fluid
100F 43LBF 1260RPM #4

#173

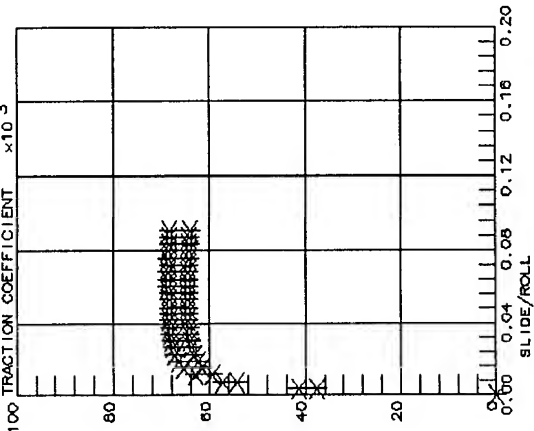
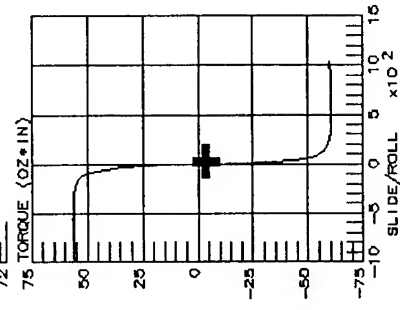
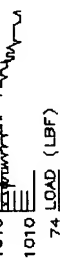
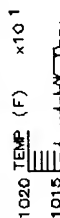
of Points Modified = 0



BZ 78-80 Fomblin Z04 base fluid
100F 74LBF 1260RPM #6

#174

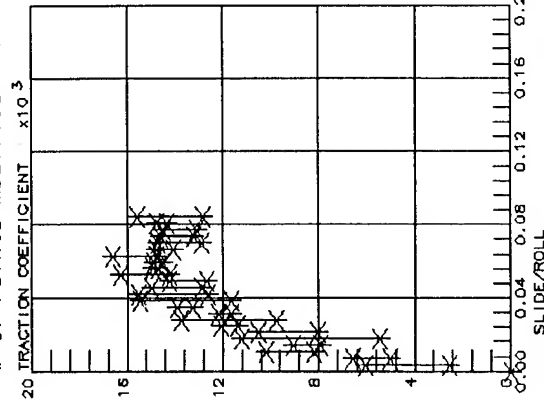
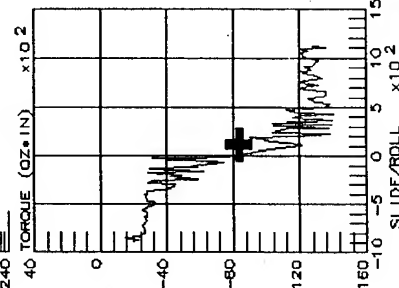
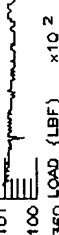
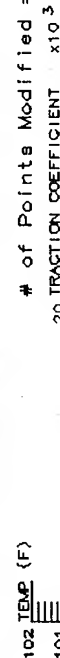
of Points Modified = 2



BZ 78-80 Fomblin Z04 base fluid
100F 3LBF 2559RPM #8

#175

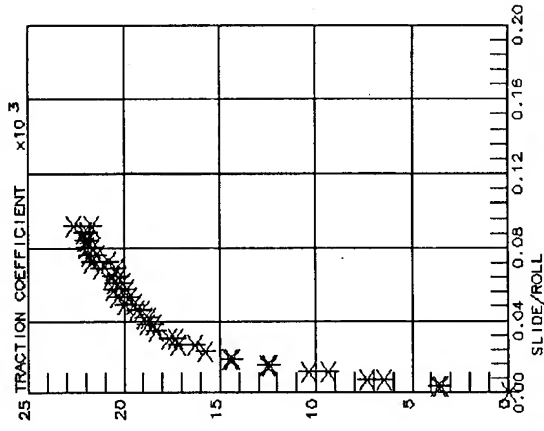
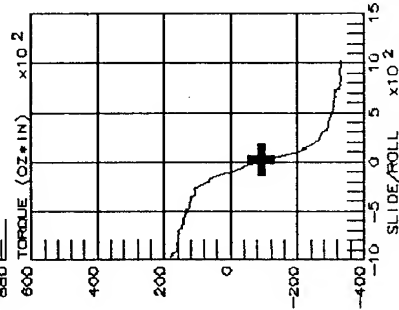
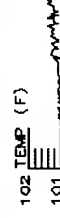
of Points Modified = 0



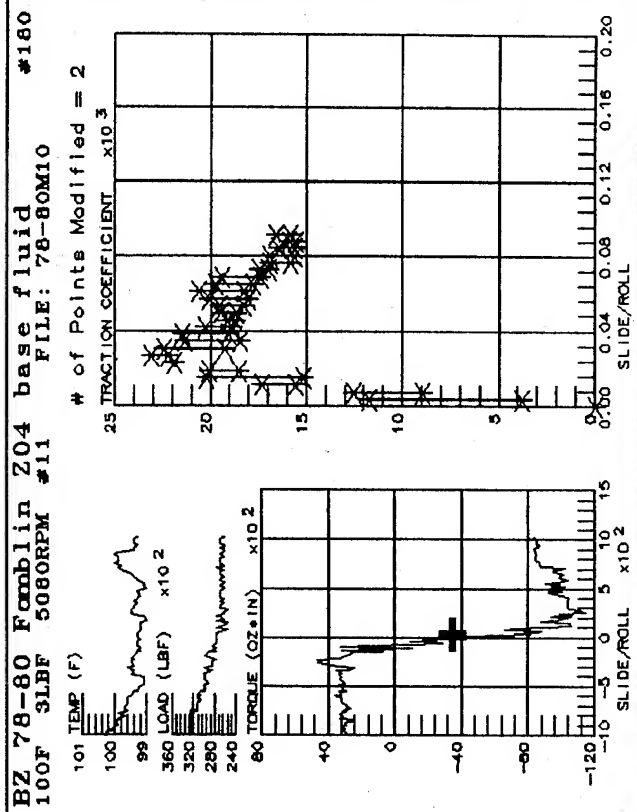
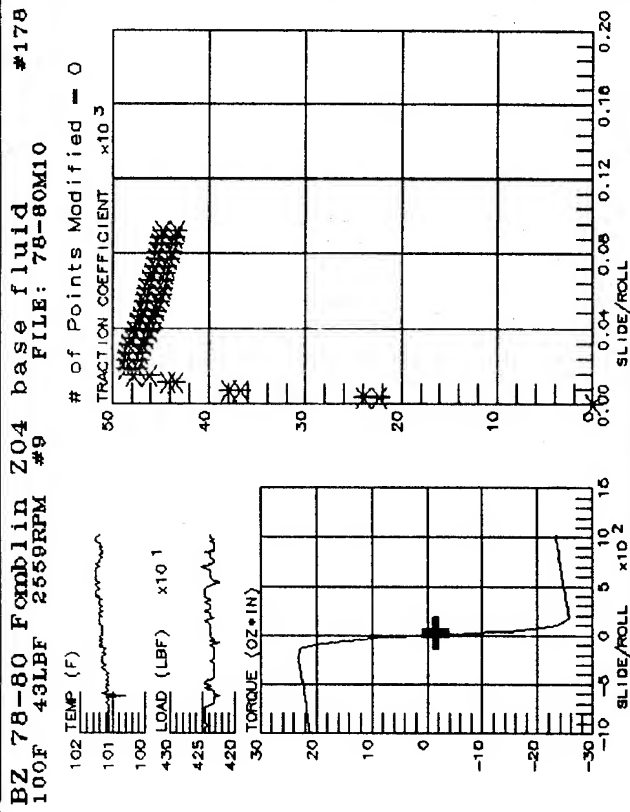
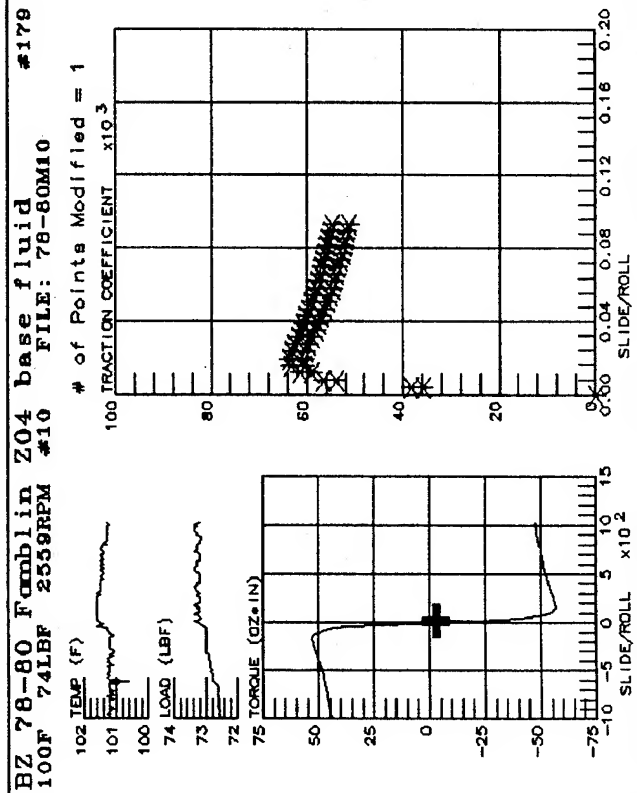
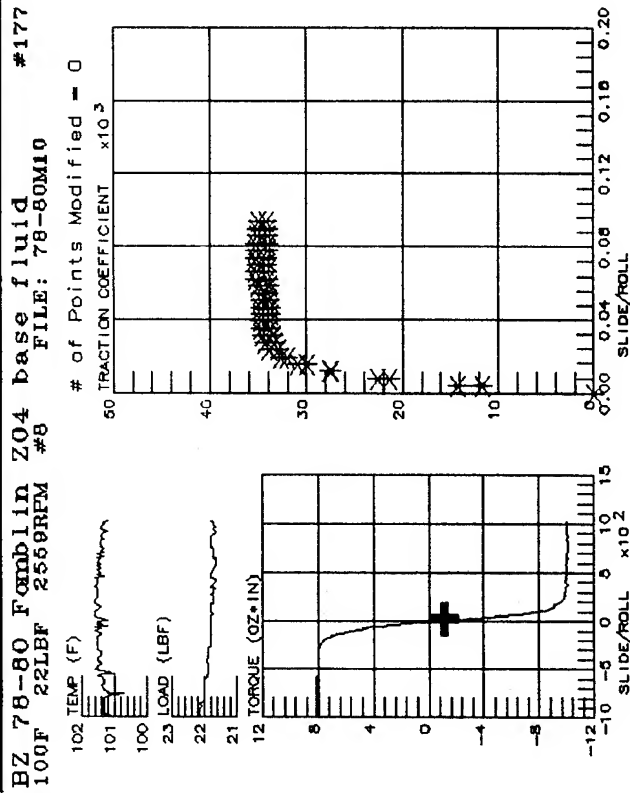
BZ 78-80 Fomblin Z04 base fluid
100F 10LBF 2559RPM #7

#176

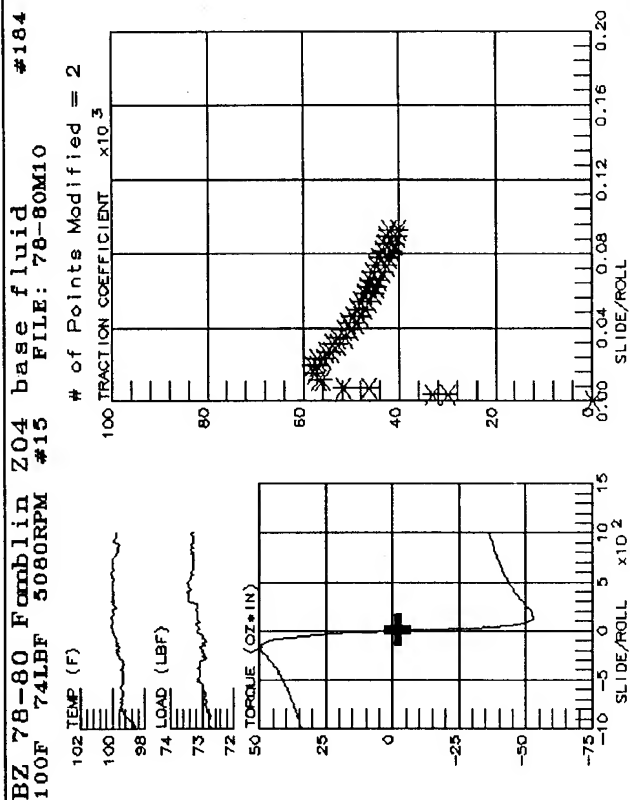
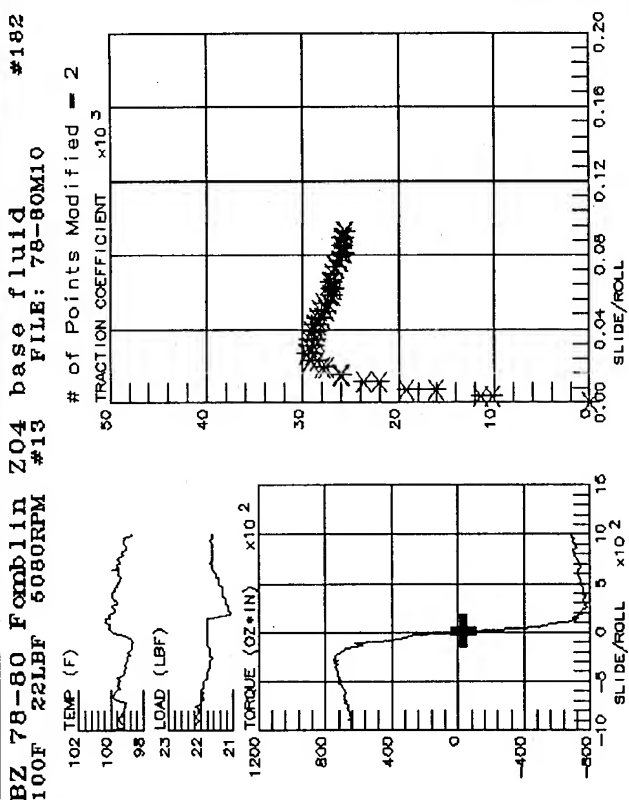
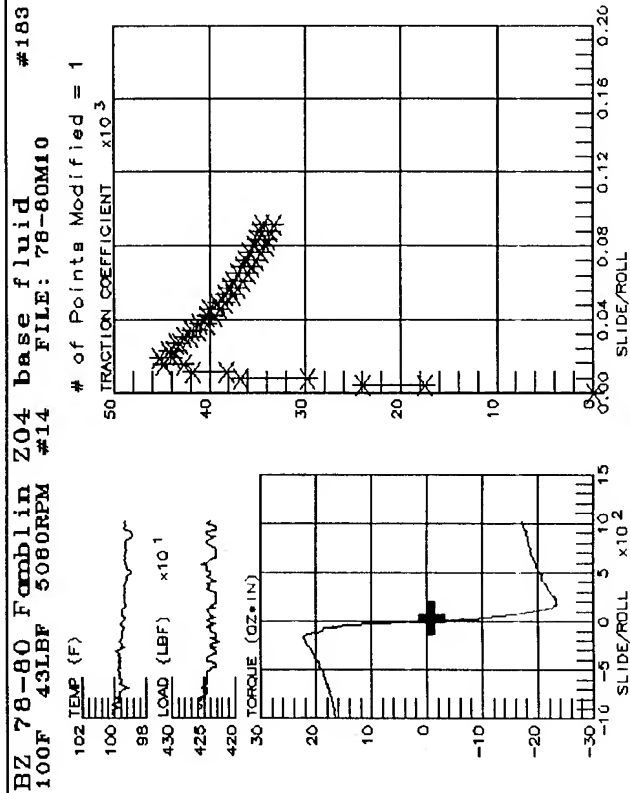
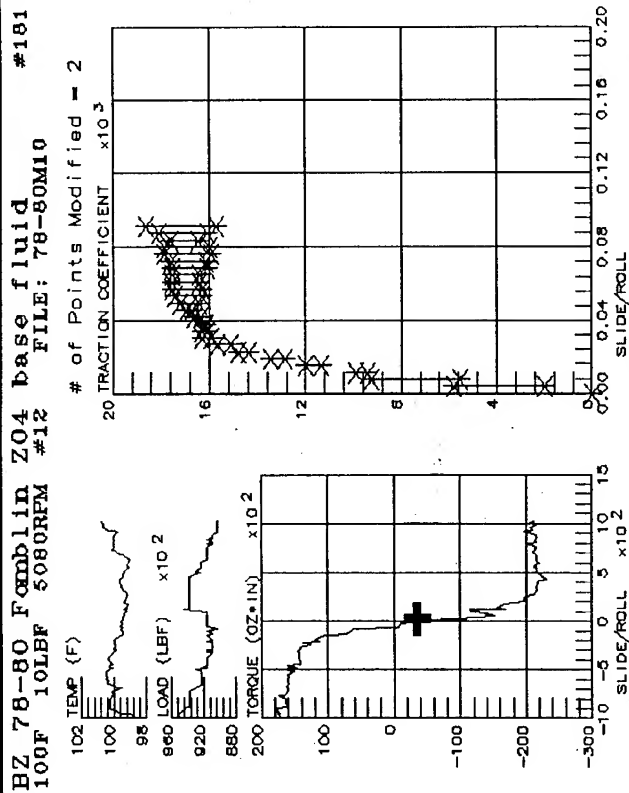
of Points Modified = 4



TRACTION DATA



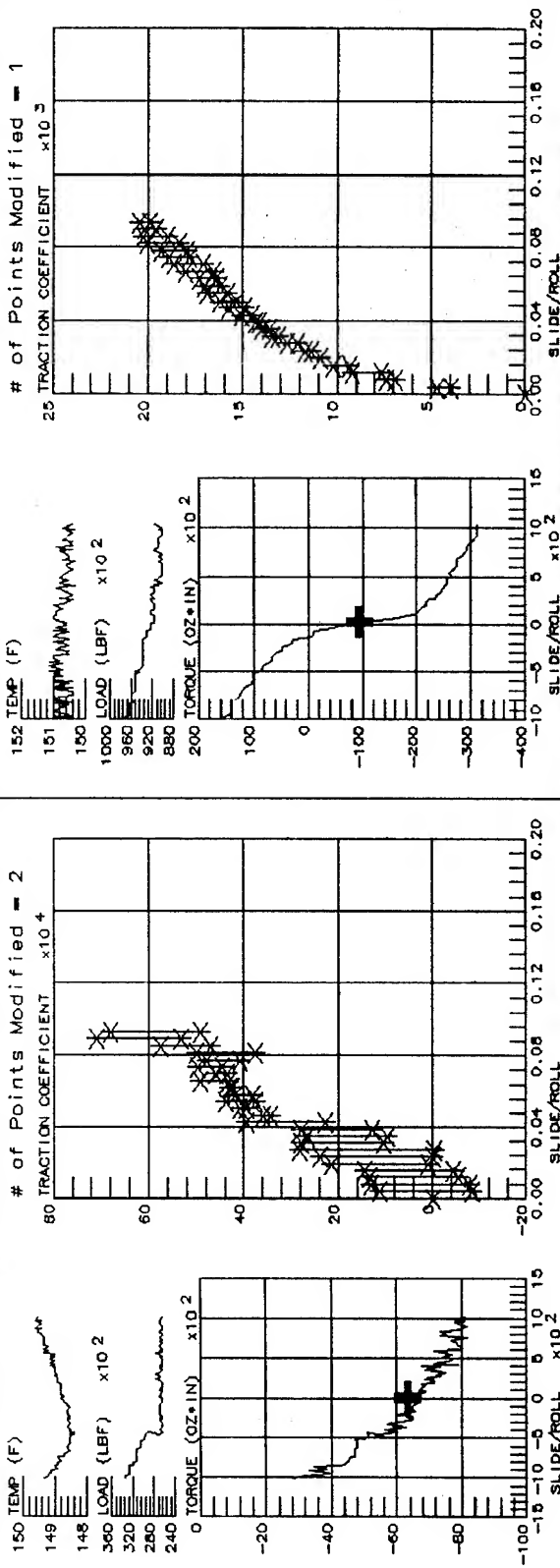
TRACTION DATA



TRACTION DATA

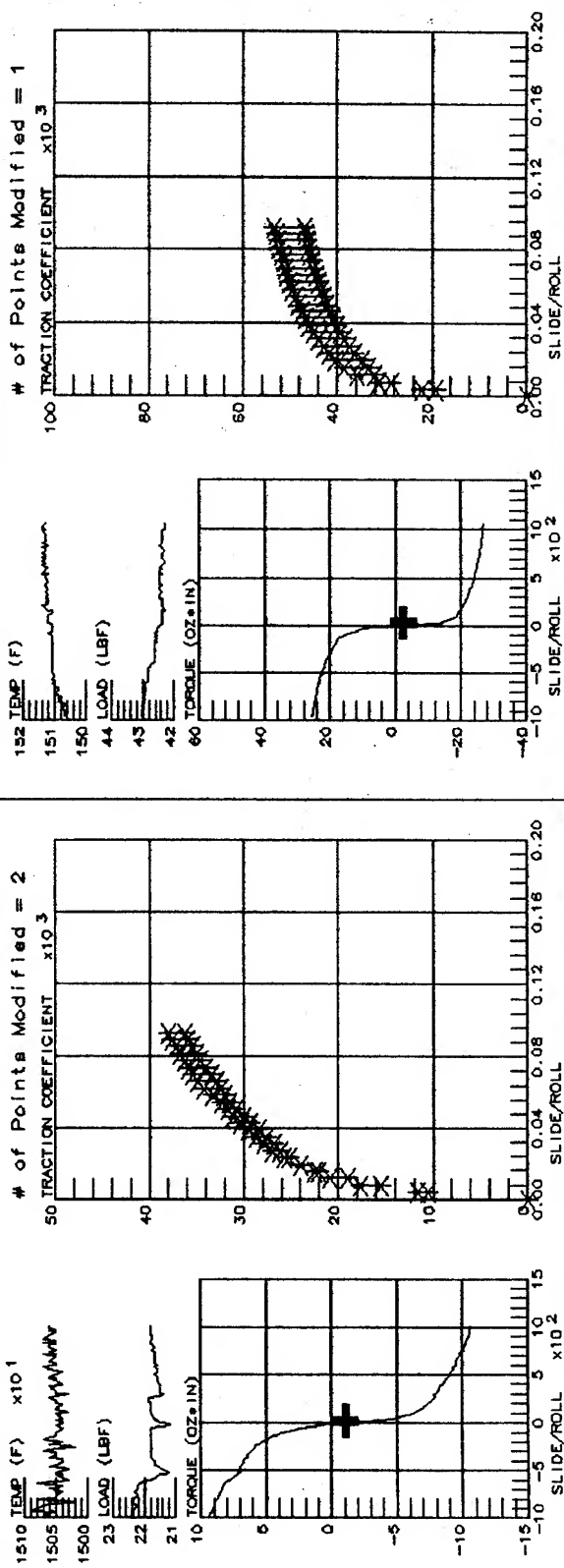
BZ 78-80 Fomblin Z04 base fluid #185
 150F 3LBF 1260RPM #1 FILE: 78-80M15

of Points Modified = 2



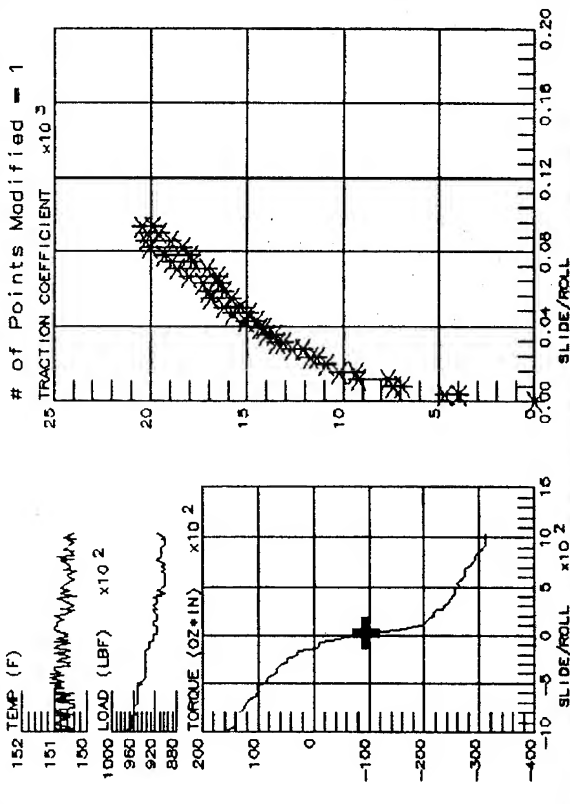
BZ 78-80 Fomblin Z04 base fluid #187
 150F 22LBF 1260RPM #3 FILE: 78-80M15

of Points Modified = 2



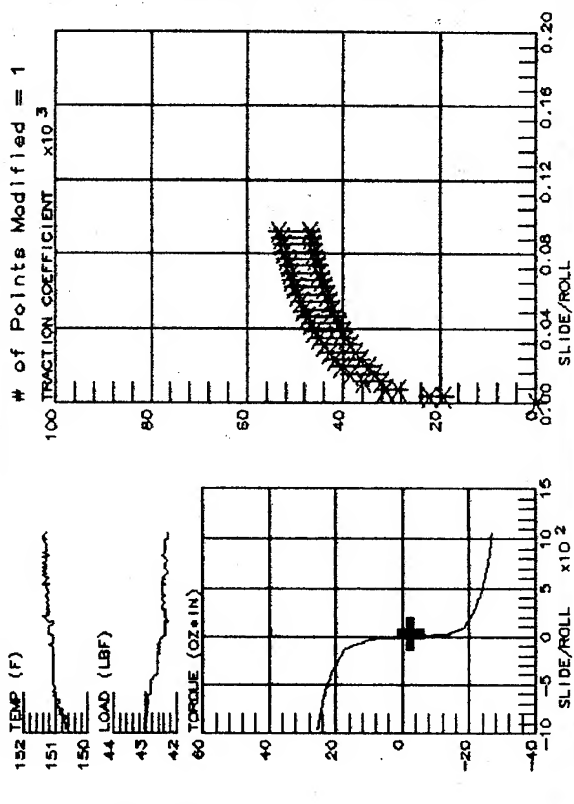
BZ 78-80 Fomblin Z04 base fluid #188
 150F 10LBF 1260RPM #2 FILE: 78-80M15

of Points Modified = 1



BZ 78-80 Fomblin Z04 base fluid #189
 150F 43LBF 1260RPM #4 FILE: 78-80M15

of Points Modified = 1

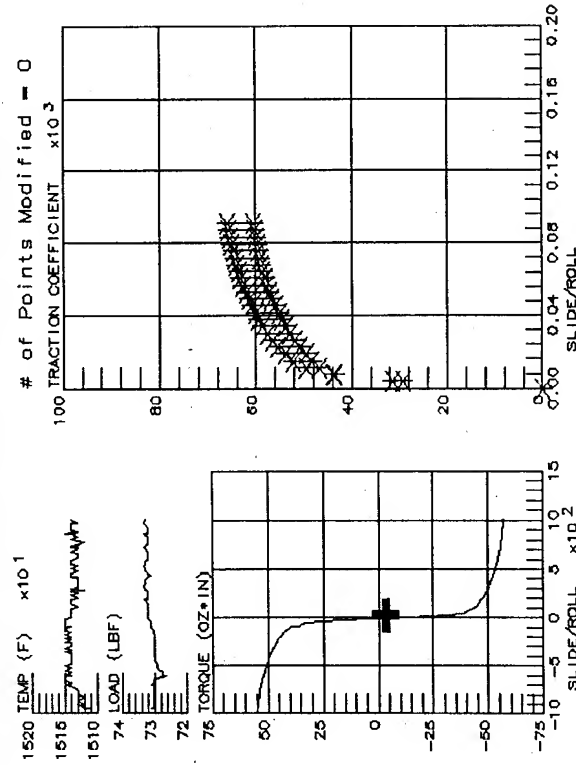


TRACTION DATA

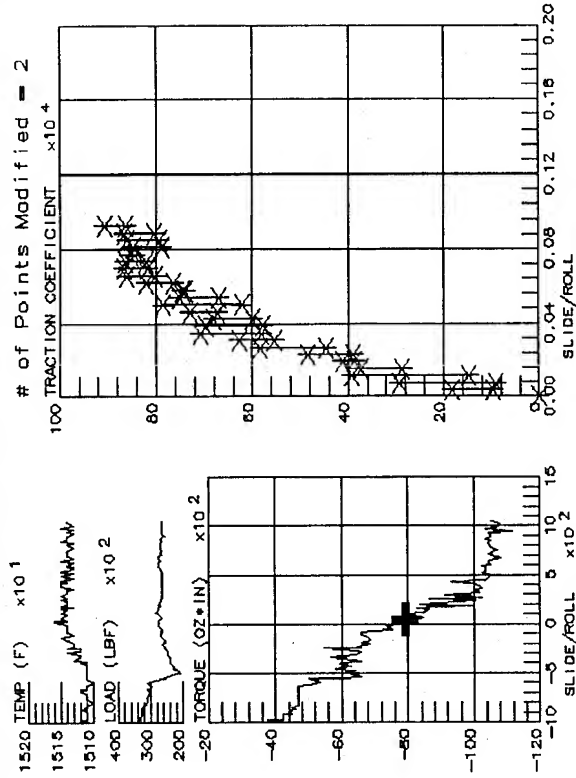
BZ 78-80 Fomblin Z04 base fluid
150F 74LBF 1260RPM #5

#189
FILE: 78-80M16

of Points Modified = 0



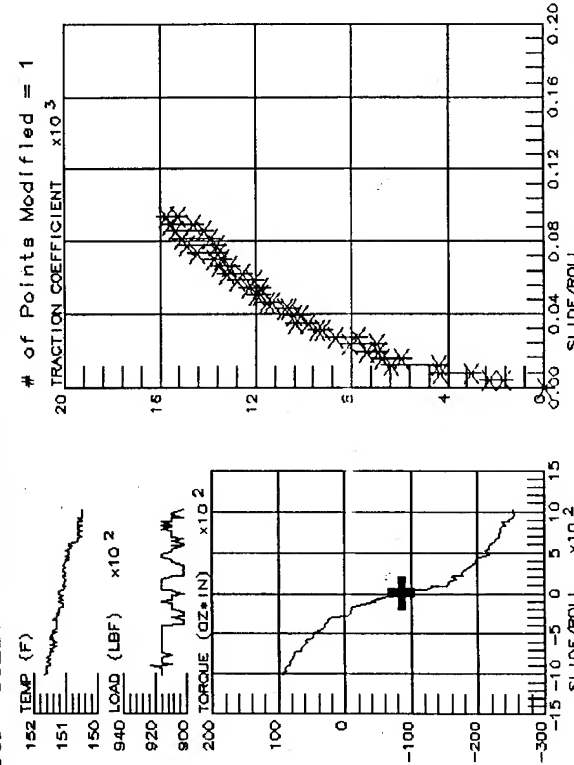
of Points Modified = 2



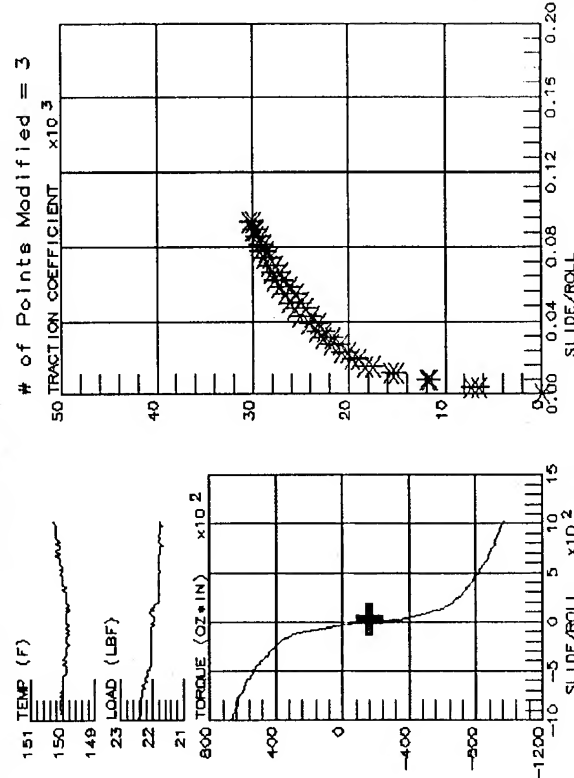
BZ 78-80 Fomblin Z04 base fluid
150F 10LBF 2359RPM #7

#191
FILE: 78-80M15

of Points Modified = 1

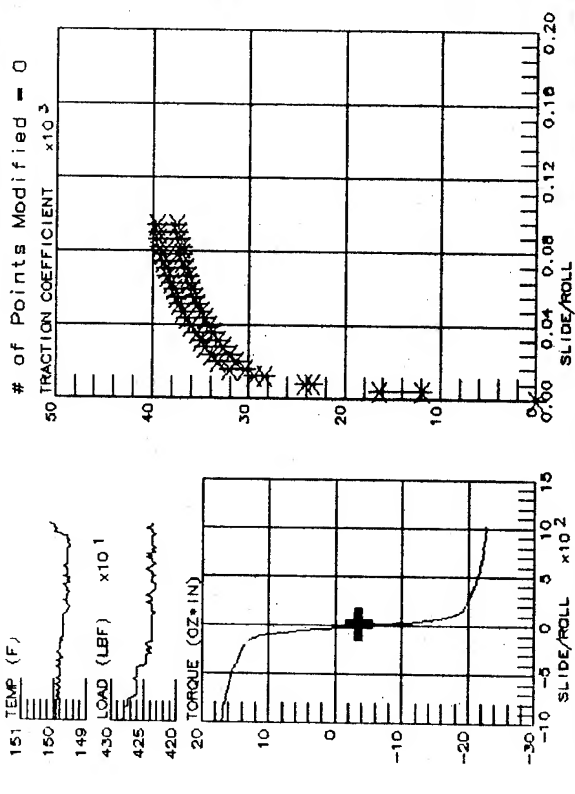


of Points Modified = 3

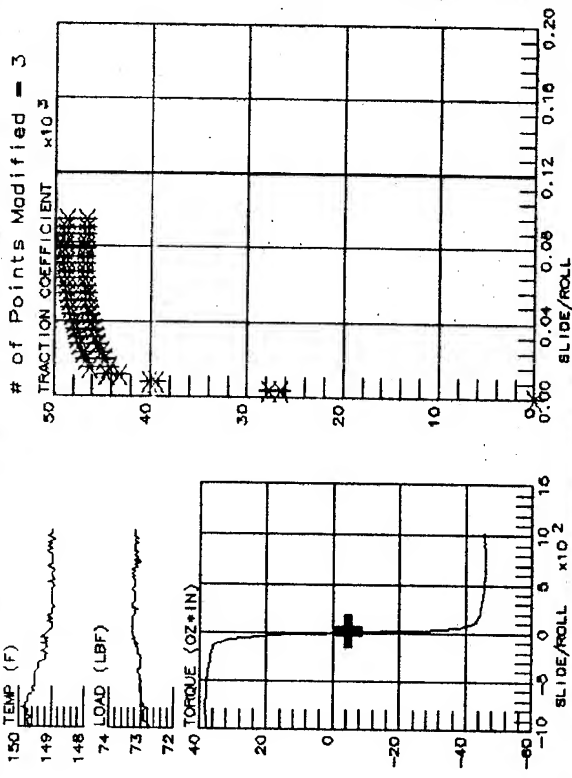


TRACTION DATA

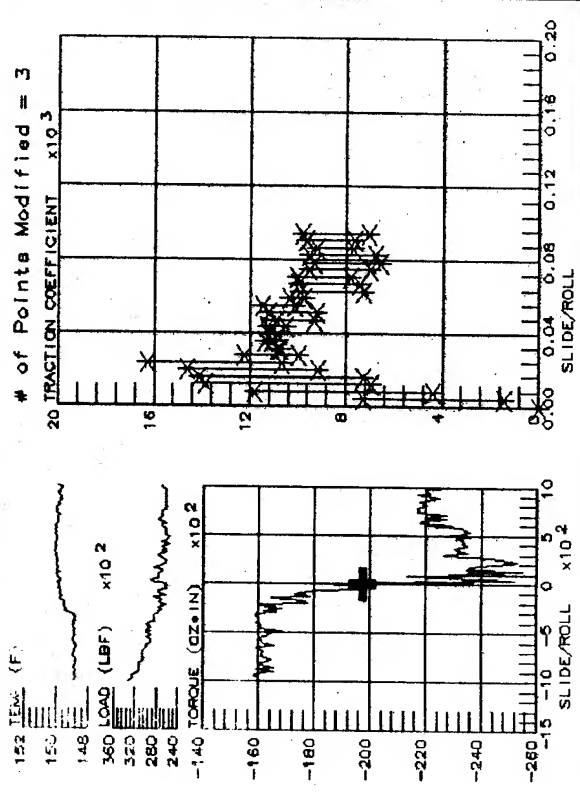
BZ 78-80 Fomblin Z04 base fluid #193
150F 43LBF 2559RPM #9 FILE: 78-80M15



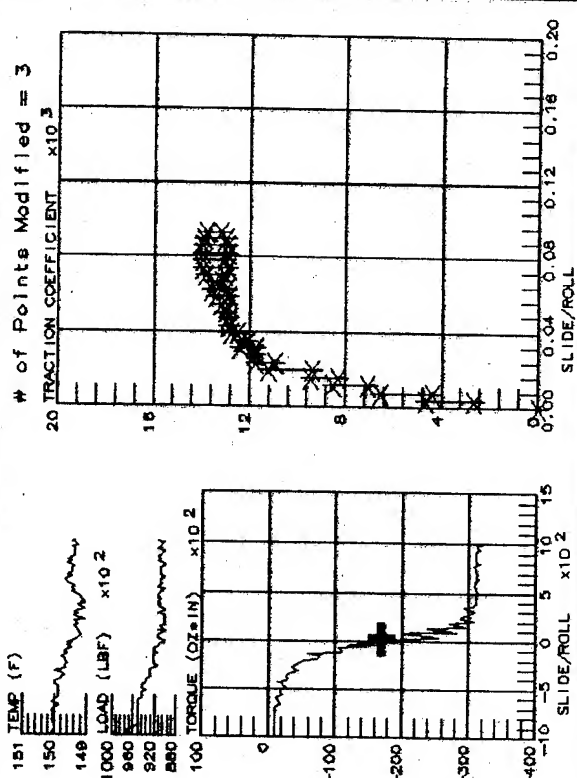
BZ 78-80 Fomblin Z04 base fluid #194
160F 74LBF 2559RPM #10 FILE: 78-80M15



BZ 78-80 Fomblin Z04 base fluid #195
150F 3LBF 5080RPM #11 FILE: 78-80M15



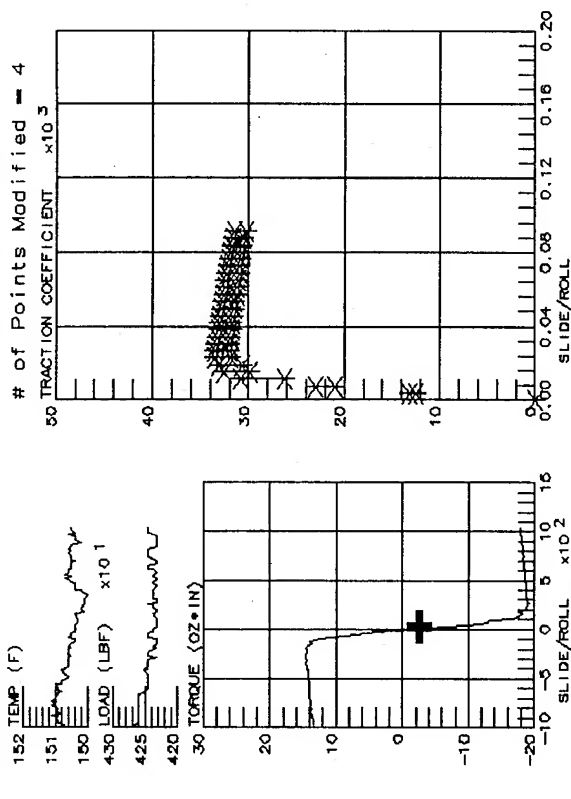
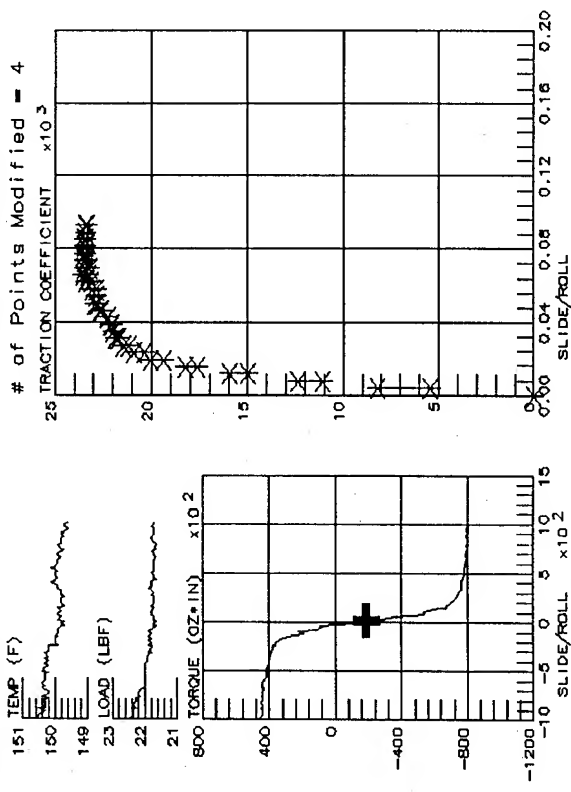
BZ 78-80 Fomblin Z04 base fluid #196
150F 10LBF 5080RPM #12 FILE: 78-80M15



TRACTION DATA

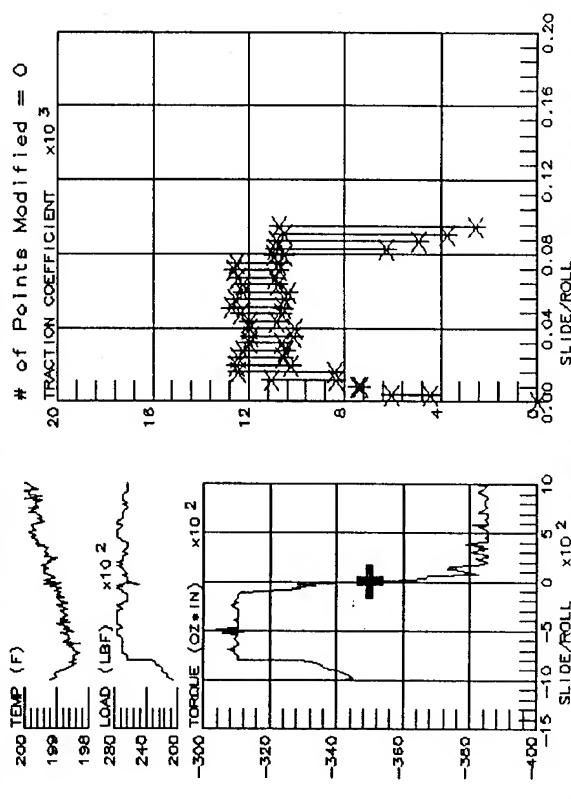
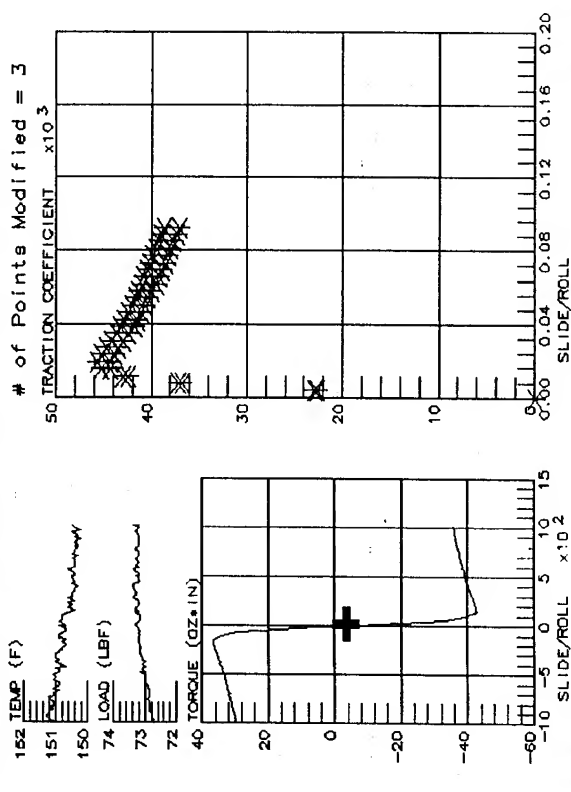
BZ 78-80 Fomblin Z04 base fluid
150F 22LBF 5080RPM #13 FILE: 78-80M15

BZ 78-80 Fomblin Z04 base fluid
150F 43LBF 5080RPM #14 FILE: 78-80M15



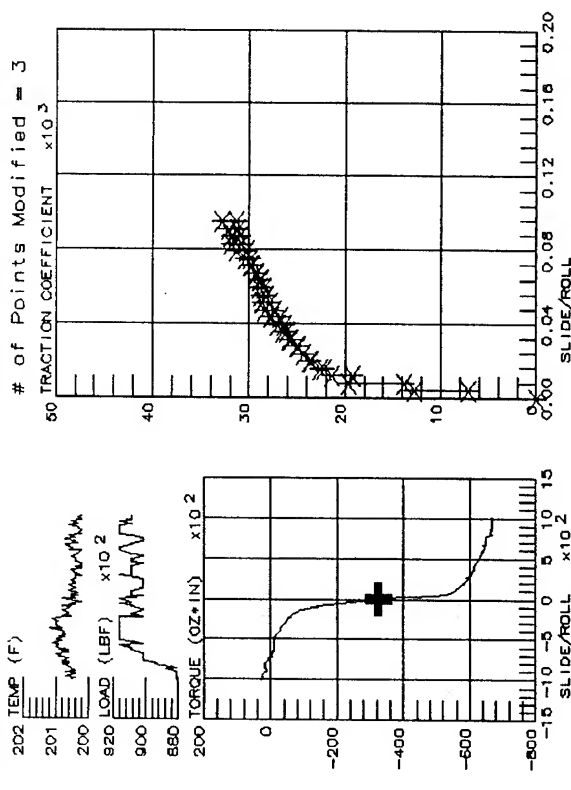
BZ 78-80 Fomblin Z04 base fluid
150F 74LBF 5080RPM #15 FILE: 78-80M15

BZ 78-80 Fomblin Z04 base fluid
200F 31LBF 1280RPM #1 FILE: 78-80M20

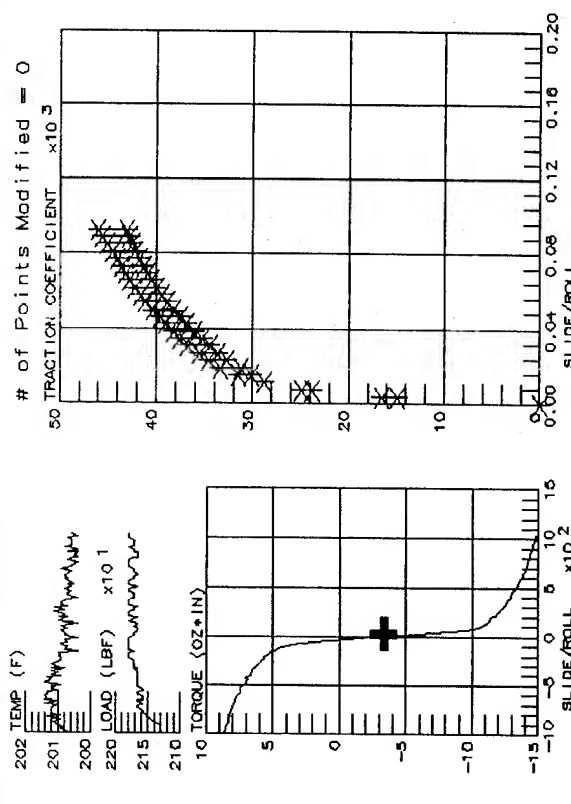


TRACTION DATA

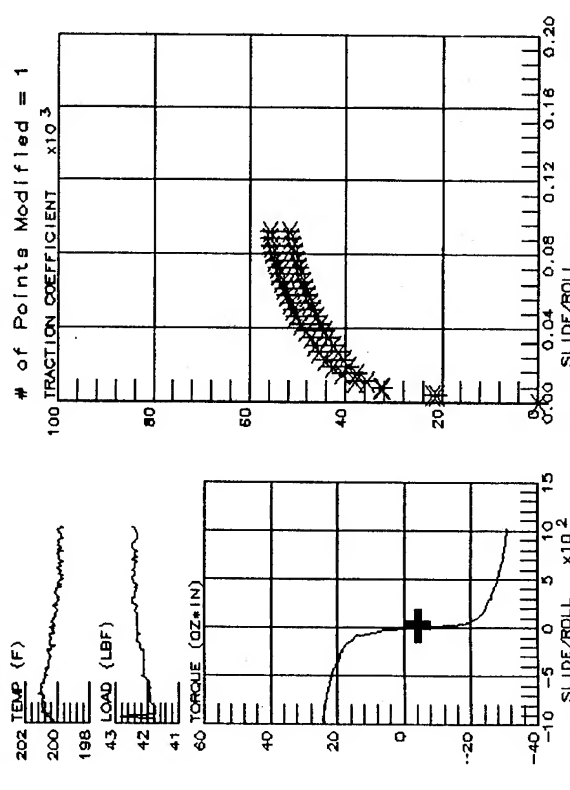
BZ 78-80 Fomblin Z04 base fluid #201
200F 10LBF 1260RPM #2
FILE: 78-80M20



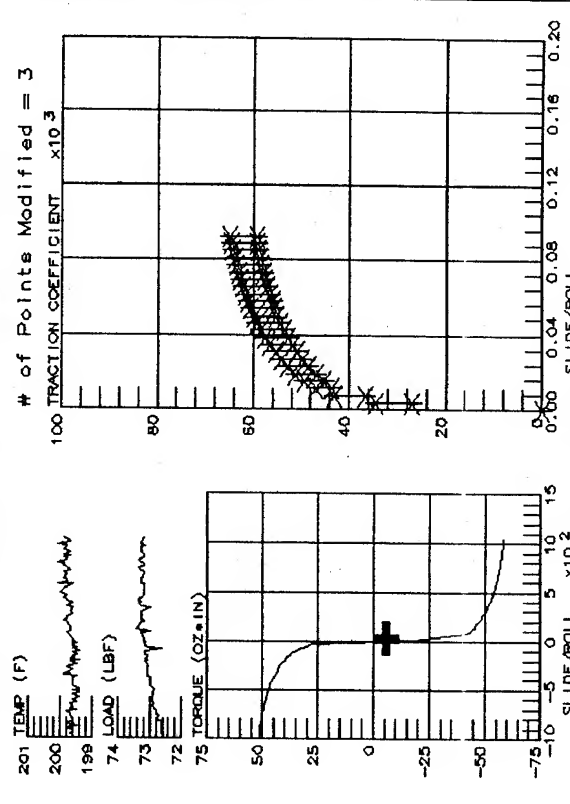
BZ 78-80 Fomblin Z04 base fluid #202
200F 22LBF 1260RPM #3
FILE: 78-80M20



BZ 78-80 Fomblin Z04 base fluid #203
200F 43LBF 1260RPM #4
FILE: 78-80M20



BZ 78-80 Fomblin Z04 base fluid #204
200F 74LBF 1260RPM #5
FILE: 78-80M20



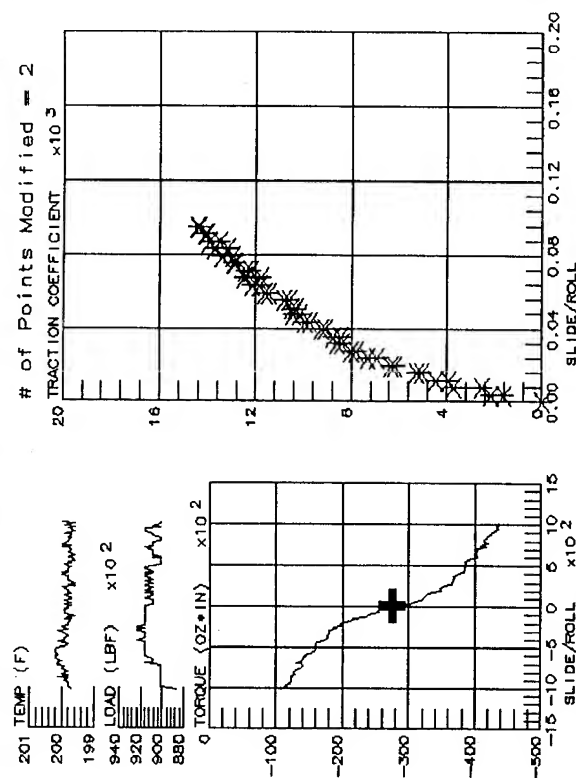
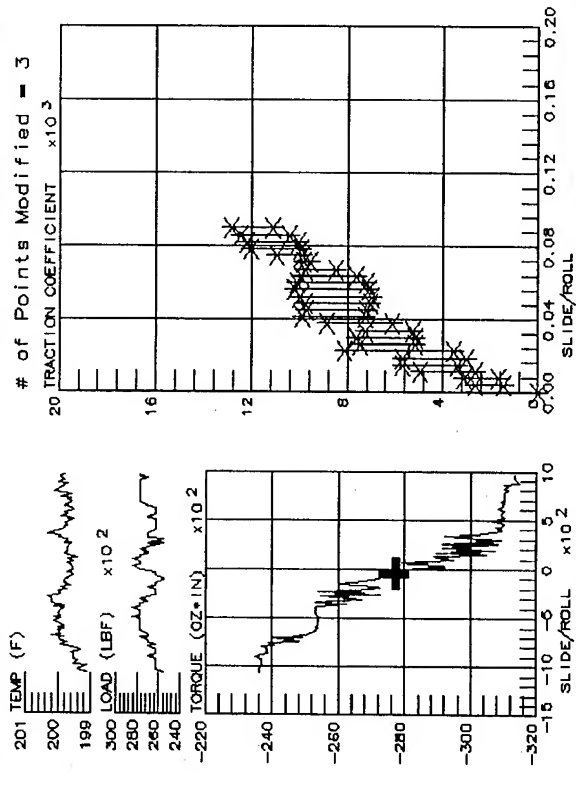
TRACTION DATA

BZ 78-80 Fomblin Z04 base fluid
200F 3LBF 2559RPM #6 FILE: 78-80M20

BZ 78-80 Fomblin Z04 base fluid
200F 10LBF 2559RPM #7 FILE: 78-80M20

of Points Modified = 3

of Points Modified = 2

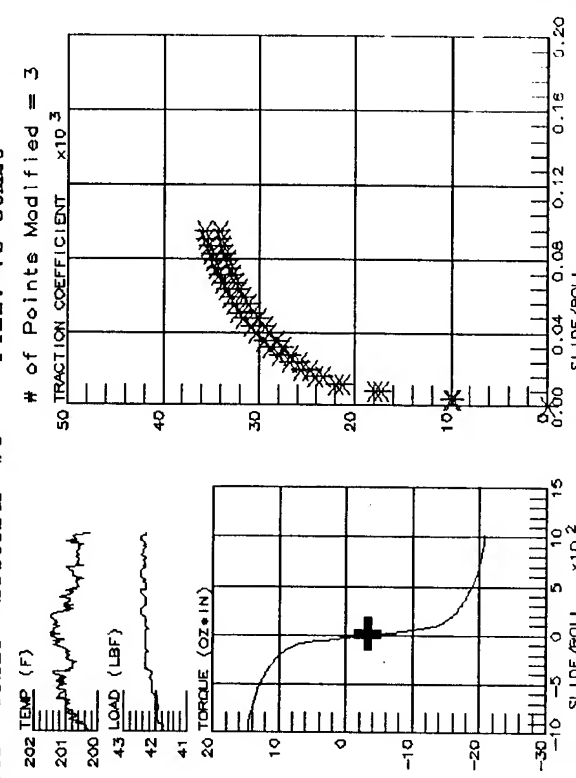
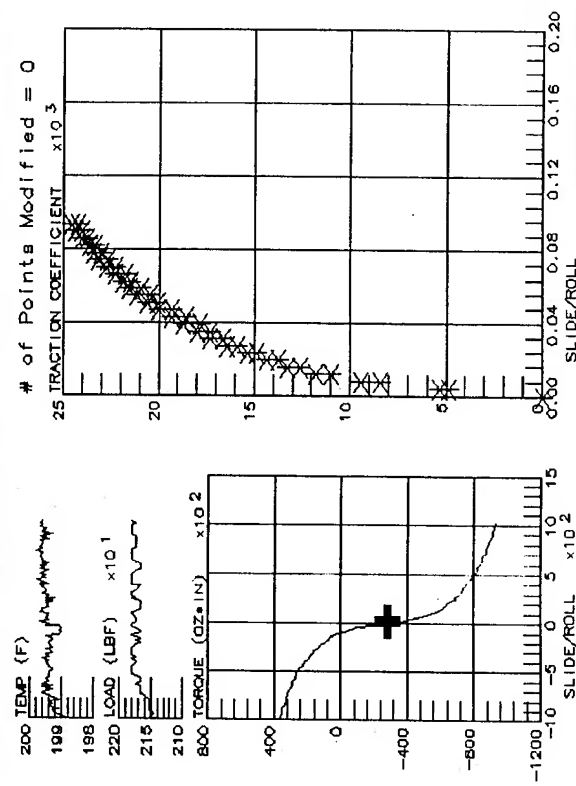


BZ 78-80 Fomblin Z04 base fluid
200F 22LBF 2559RPM #8 FILE: 78-80M20

BZ 78-80 Fomblin Z04 base fluid
200F 43LBF 2559RPM #9 FILE: 78-80M20

of Points Modified = 0

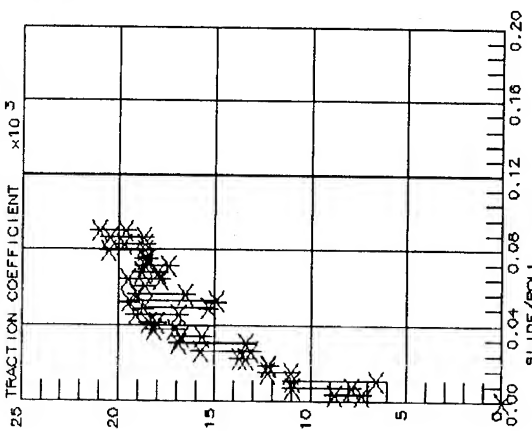
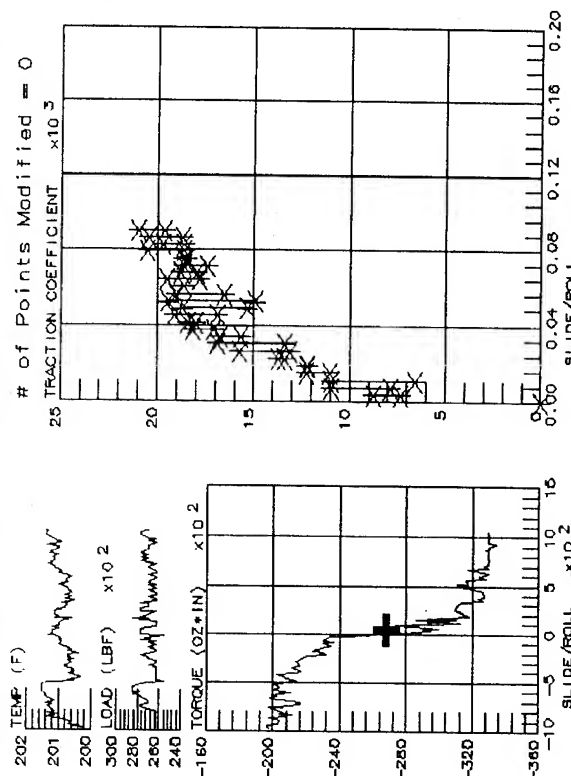
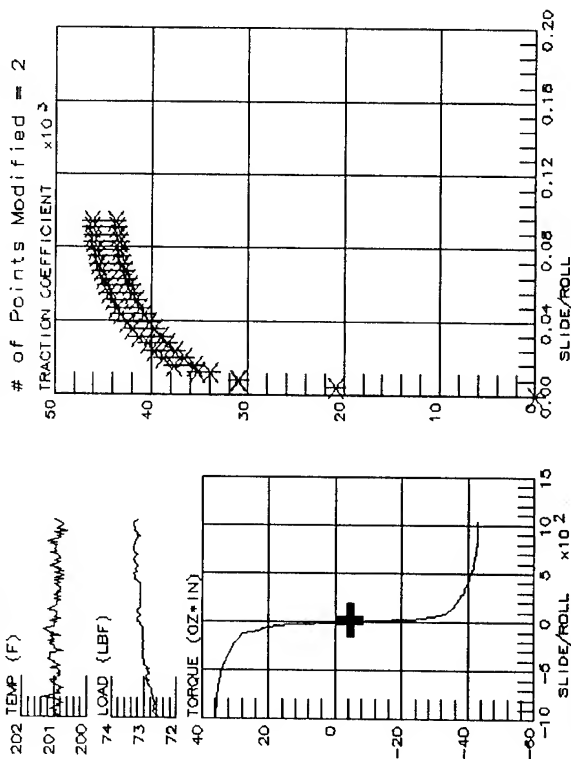
of Points Modified = 3



TRACTION DATA

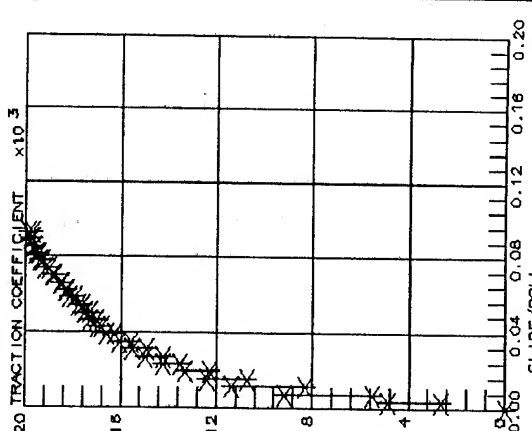
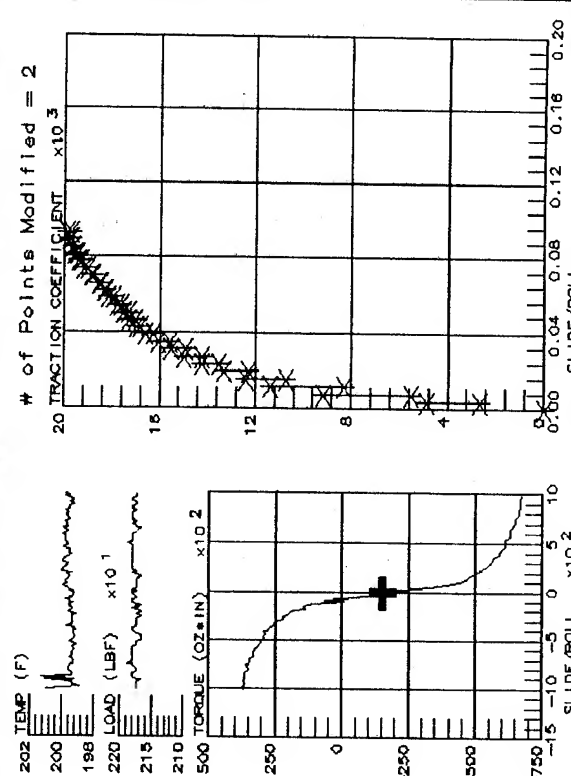
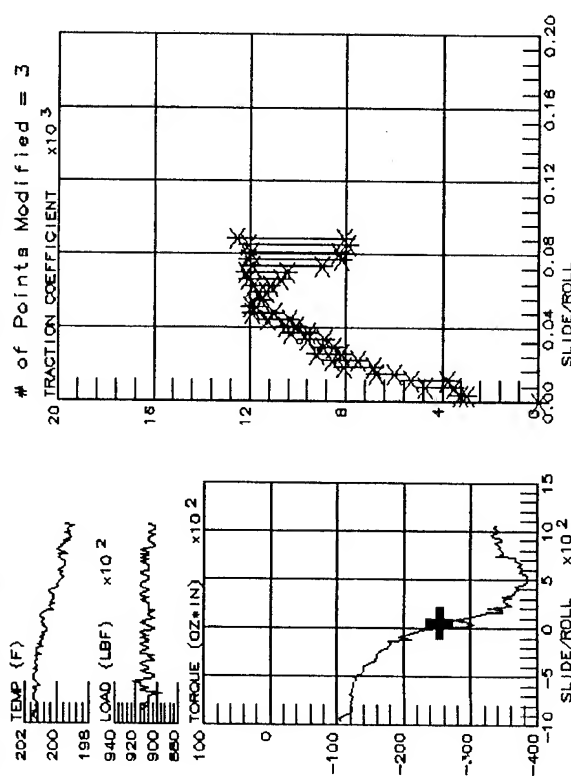
BZ 78-80 Fomblin Z04 base fluid
200F 74LBF 2559RPM #10 FILE: 78-80M20

BZ 78-80 Fomblin Z04 base fluid
200F 3LBF 5080RPM #11 FILE: 78-80M20



BZ 78-80 Fomblin Z04 base fluid
200F 10LBF 5080RPM #12 FILE: 78-80M20

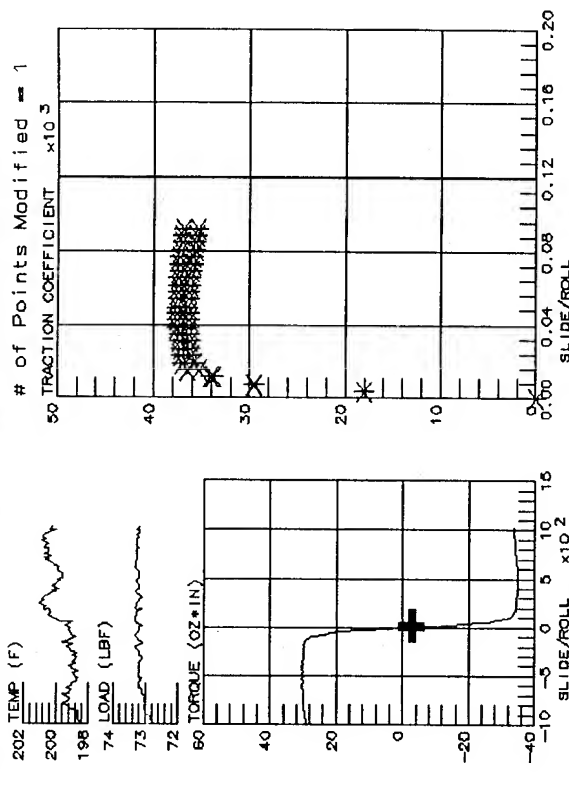
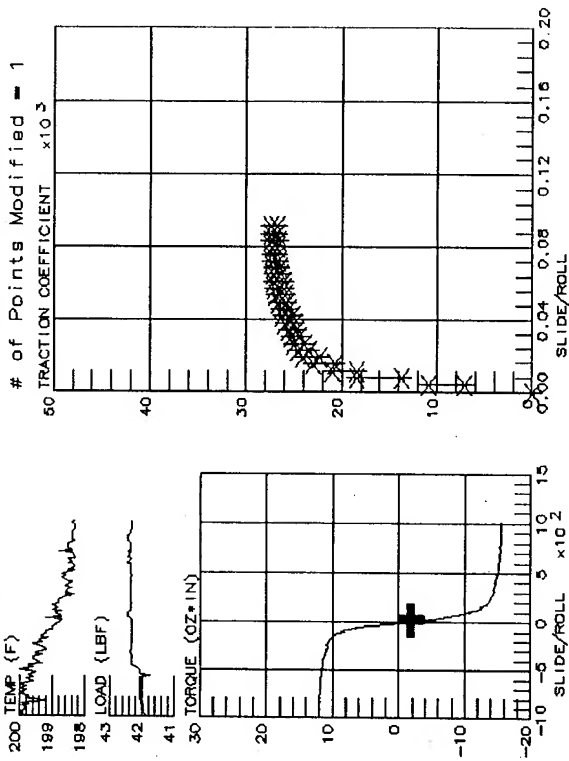
BZ 78-80 Fomblin Z04 base fluid
200F 22LBF 5080RPM #13 FILE: 78-80M20



TRACTION DATA

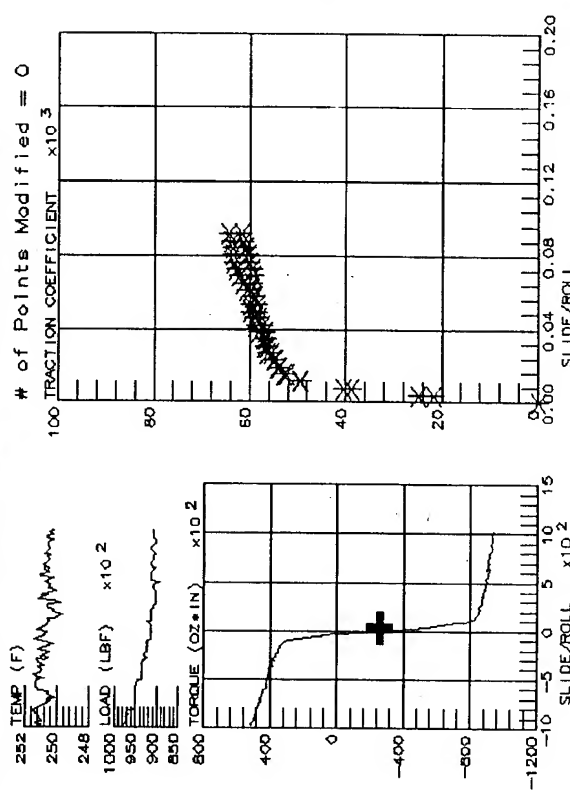
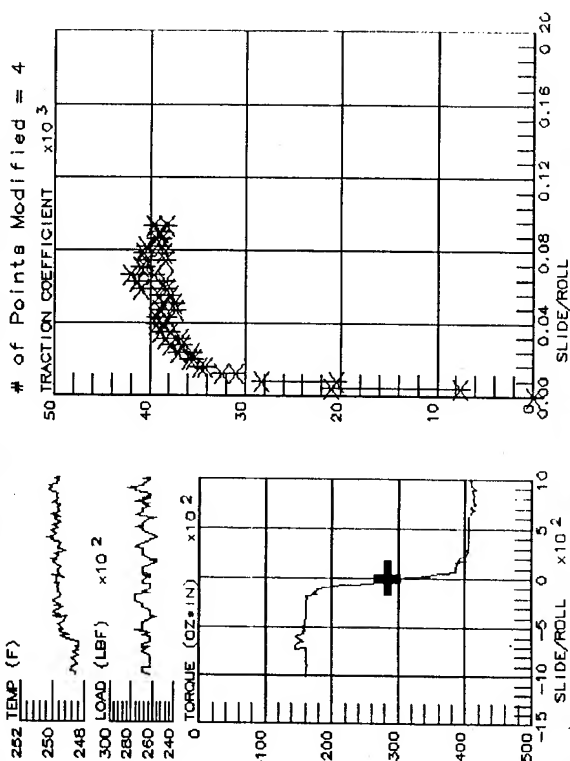
BZ 78-80 Fomblin Z04 base fluid
200F 43LBF 5080RPM #14 FILE: 78-80M20

#213 # of Points Modified = 1



BZ 78-80 Fomblin Z04 base fluid
250F 3LBF 1260RPM #1 FILE: 78-80M25

#215 # of Points Modified = 4



TRACTION DATA

BZ 78-80 Fomblin Z04 base fluid
250F 22LBF 1260RPM #3

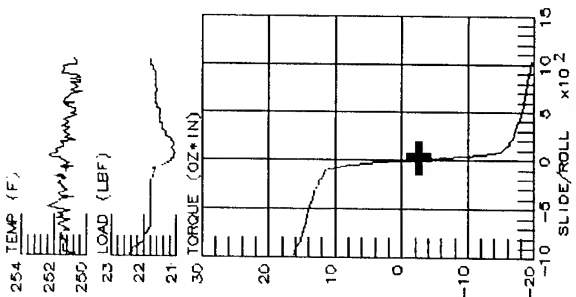
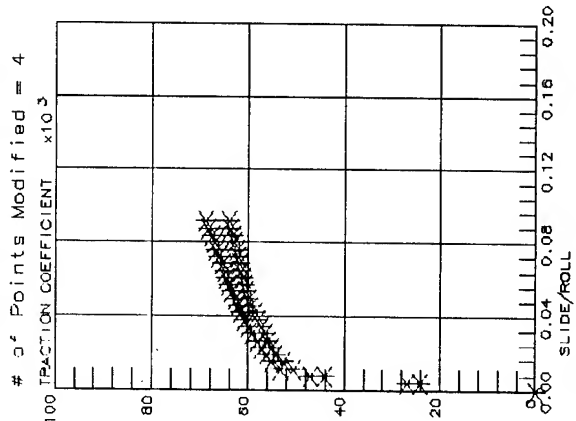
#217

BZ 78-80 Fomblin Z04 base fluid
250F 43LBF 1260RPM #4

#218

of Points Modified = 4

100 TRACTION COEFFICIENT $\times 10^3$



BZ 78-80 Fomblin Z04 base fluid
250F 74LBF 1260RPM #5

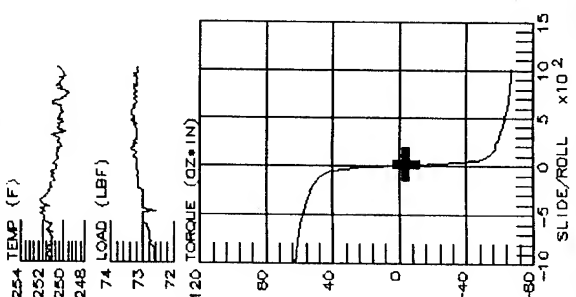
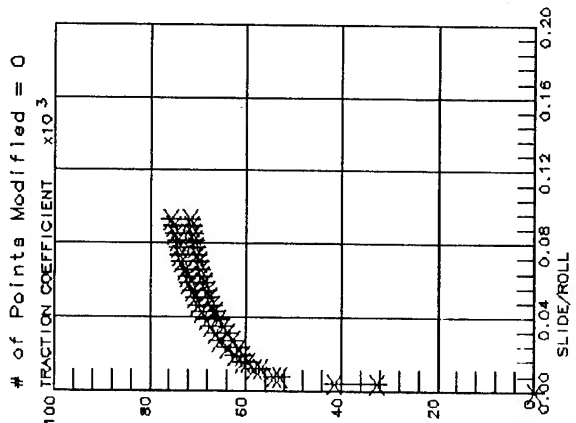
#219

BZ 78-80 Fomblin Z04 base fluid
250F 31LBF 2550RPM #6

#220

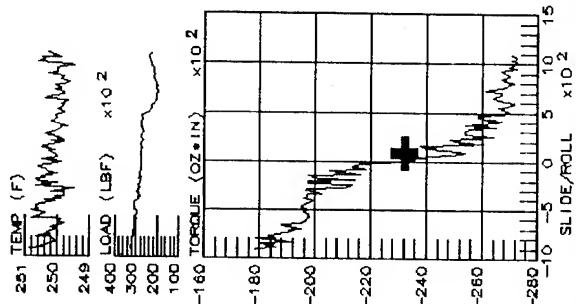
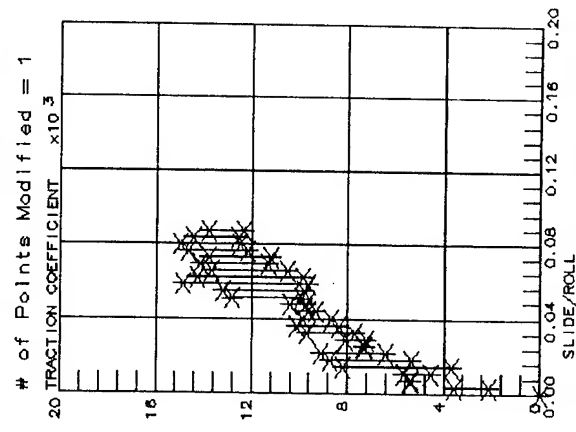
of Points Modified = 0

100 TRACTION COEFFICIENT $\times 10^3$



of Points Modified = 1

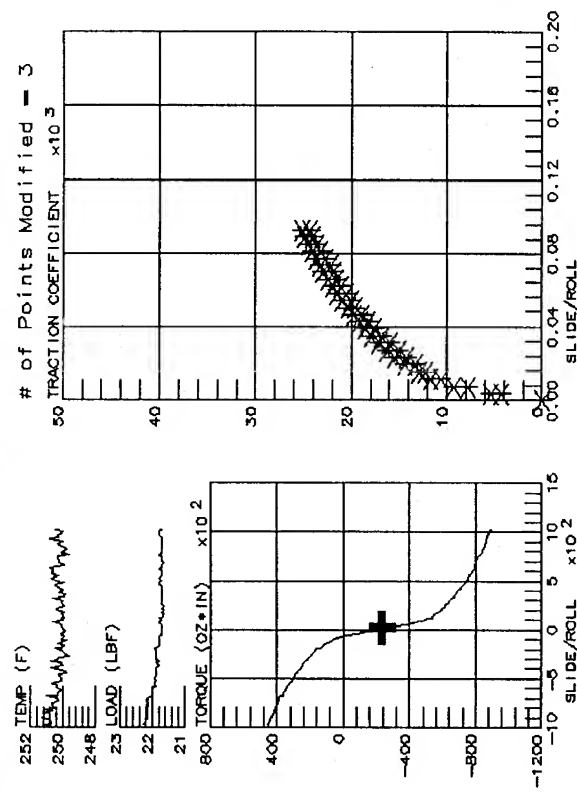
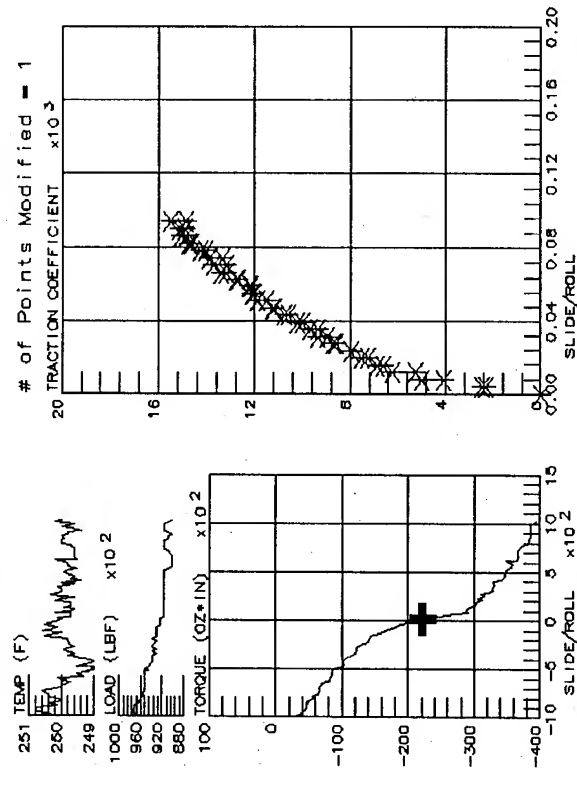
20 TRACTION COEFFICIENT $\times 10^3$



TRACTION DATA

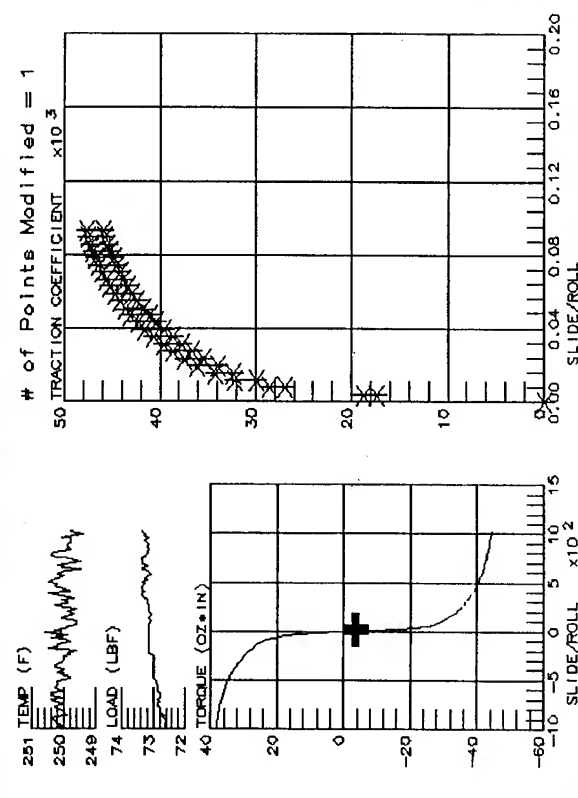
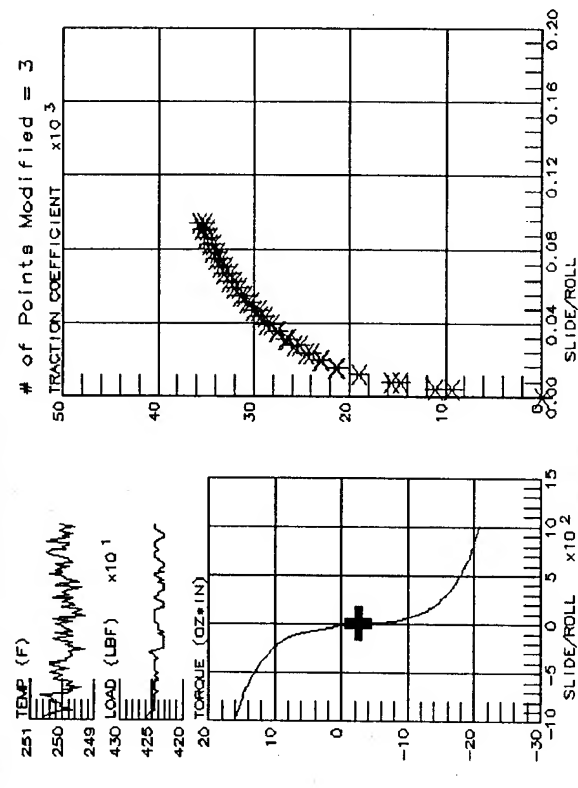
BZ 78-80 Foamblin Z04 base fluid
250F 10LBF 2559RPM #7 FILE: 78-80M25

#221
of Points Modified = 1



BZ 78-80 Foamblin Z04 base fluid
250F 43LBF 2559RPM #9 FILE: 78-80M25

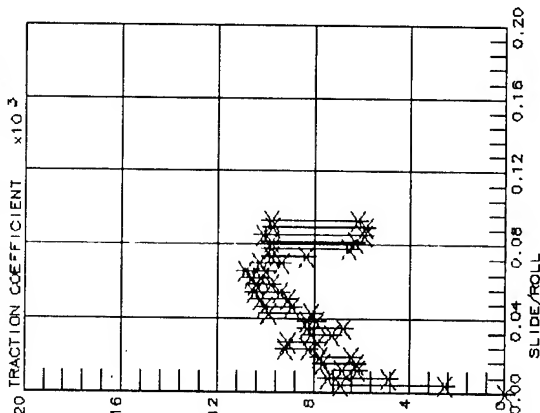
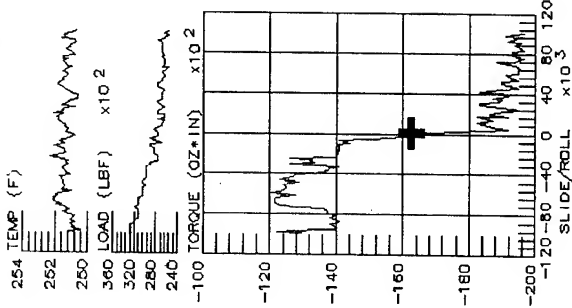
#223
of Points Modified = 3



TRACTION DATA

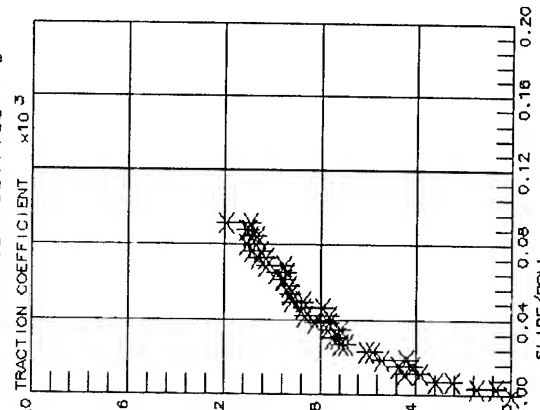
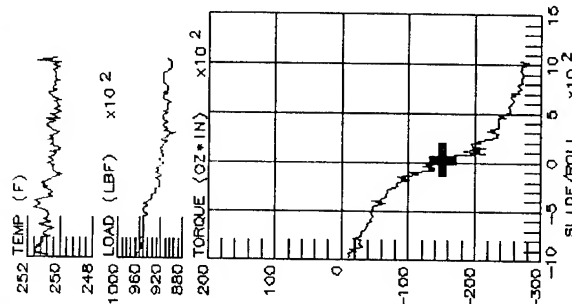
BZ 78-80 Fomblin Z04 base fluid #225
250F 3LBF 5080RPM #11 FILE: 78-80M25

of Points Modified = 2



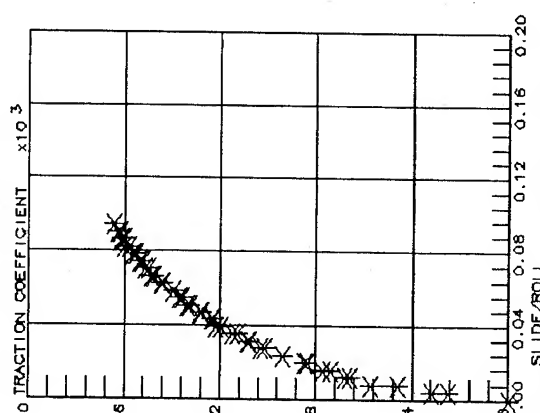
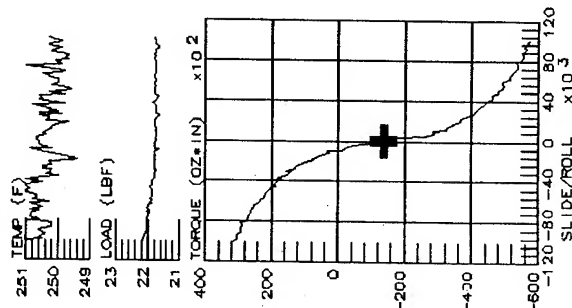
BZ 78-80 Fomblin Z04 base fluid #226
250F 10LBF 5080RPM #12 FILE: 78-80M25

of Points Modified = 0



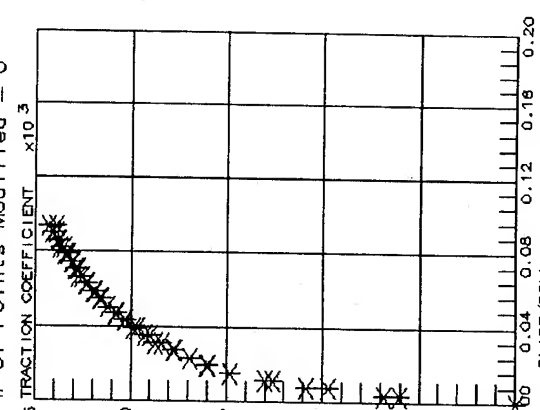
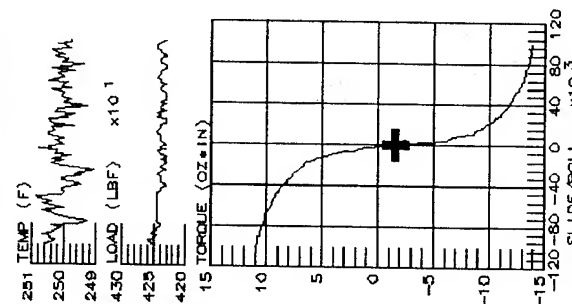
BZ 78-80 Fomblin Z04 base fluid #227
250F 22LBF 5080RPM #13 FILE: 78-80M25

of Points Modified = 1



BZ 78-80 Fomblin Z04 base fluid #228
250F 43LBF 5080RPM #14 FILE: 78-80M25

of Points Modified = 0



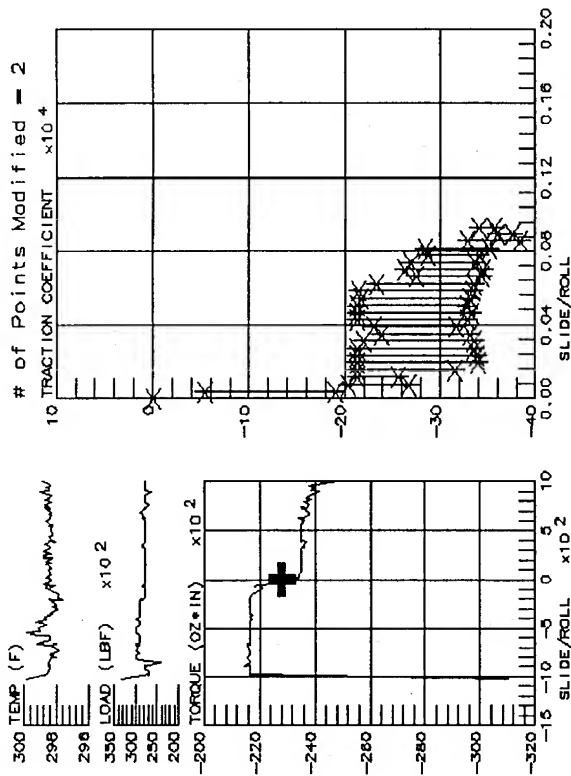
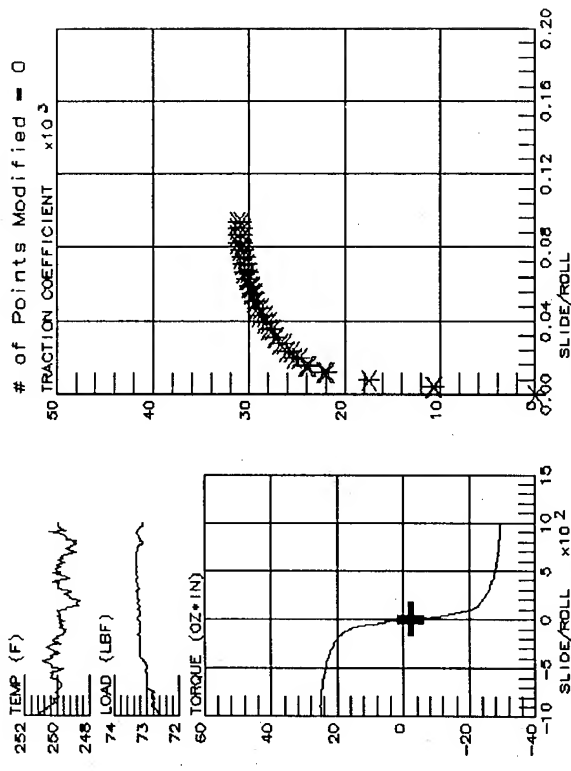
TRACTION DATA

BZ 78-80 Fomblin Z04 base fluid
250F 74LBF 5080RPM #15 FILE: 78-80M25

BZ 78-80 Fomblin Z04 base fluid
300F 3LBF 1260RPM #1 FILE: 78-80M30

of Points Modified = 0

of Points Modified = 2

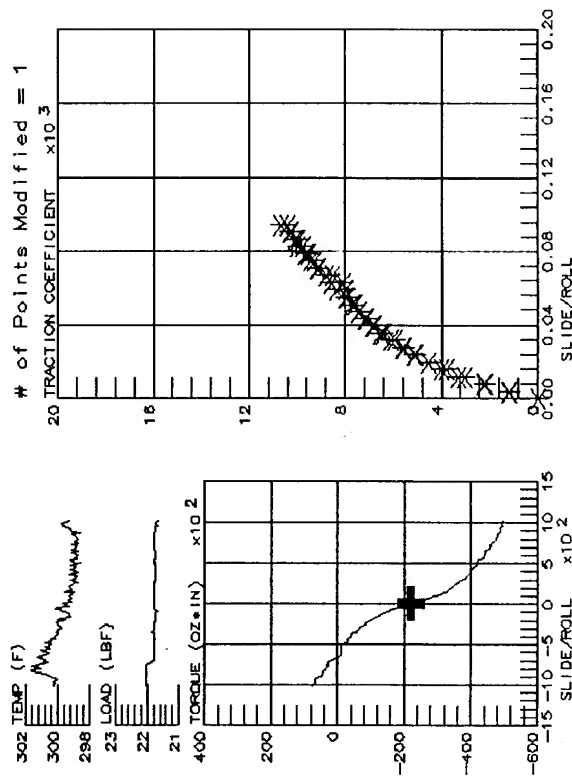
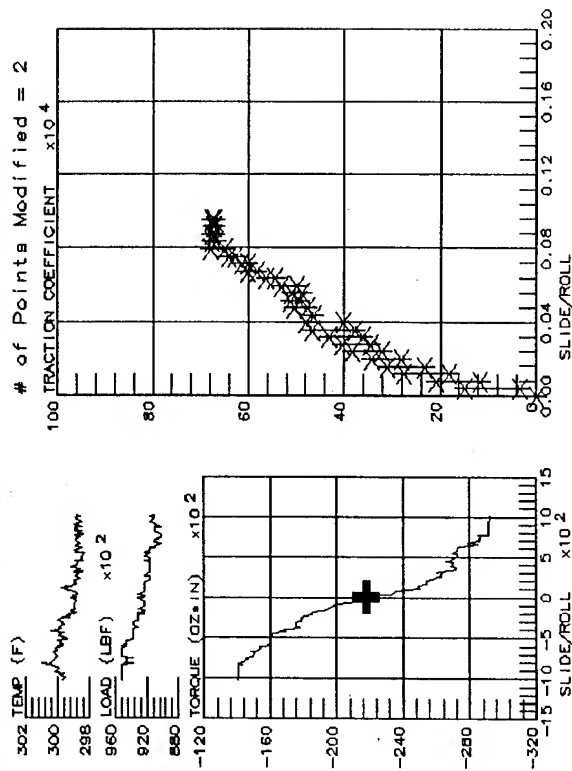


BZ 78-80 Fomblin Z04 base fluid
300F 10LBF 1260RPM #2 FILE: 78-80M30

BZ 78-80 Fomblin Z04 base fluid
300F 22LBF 1260RPM #3 FILE: 78-80M30

of Points Modified = 2

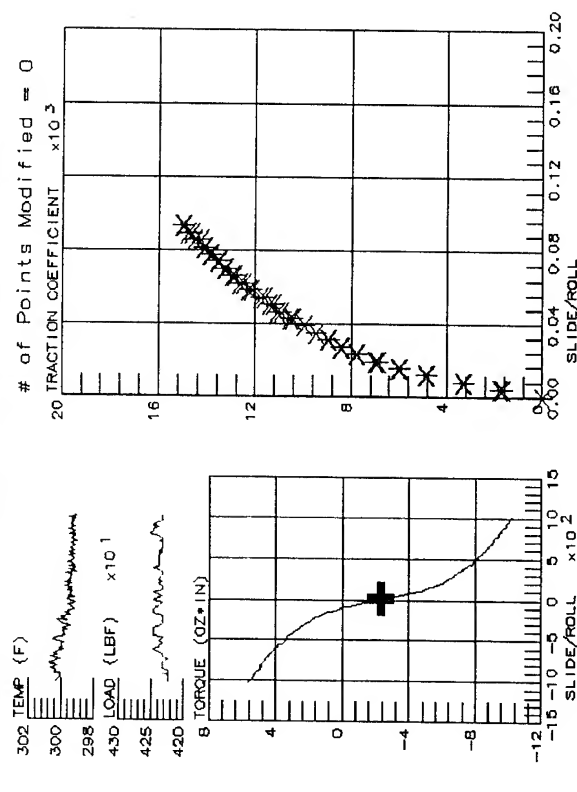
of Points Modified = 1



TRACTION DATA

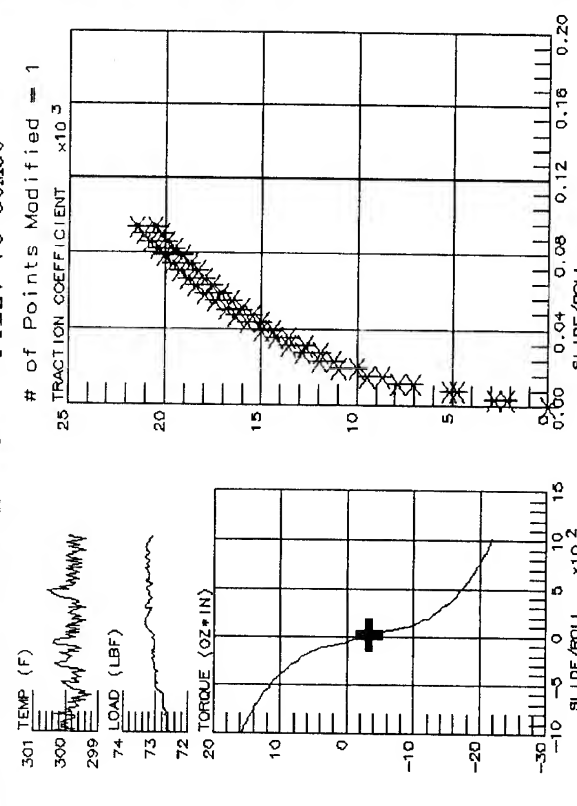
BZ 78-80 Fomblin Z04 base fluid #233
300F 43LBF 1260RPM #4
FILE: 78-80M30

of Points Modified = 0



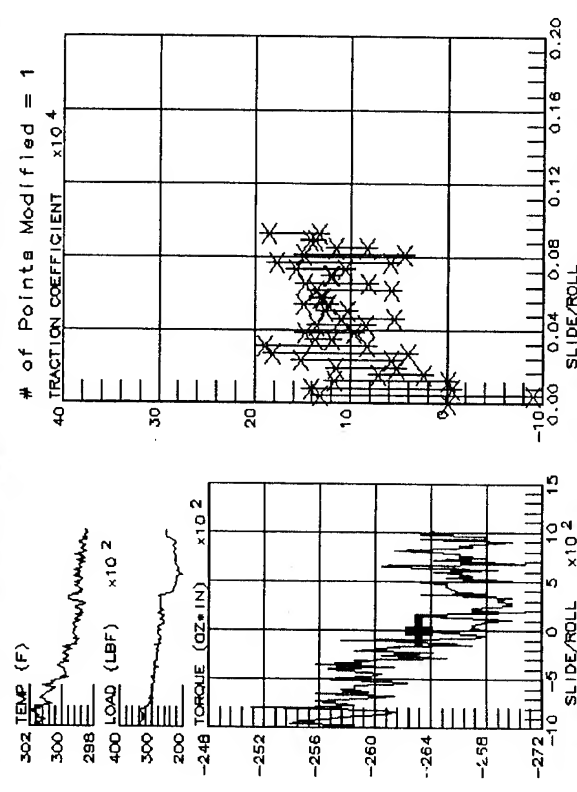
BZ 78-80 Fomblin Z04 base fluid #234
300F 74LBF 1260RPM #5
FILE: 78-80M30

of Points Modified = 1



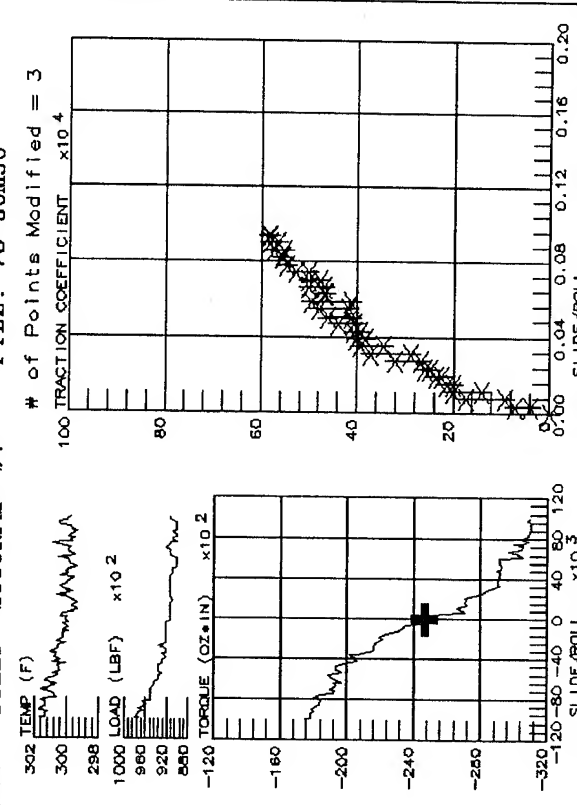
BZ 78-80 Fomblin Z04 base fluid #235
300F 3LBF 2559RPM #6
FILE: 78-80M30

of Points Modified = 1

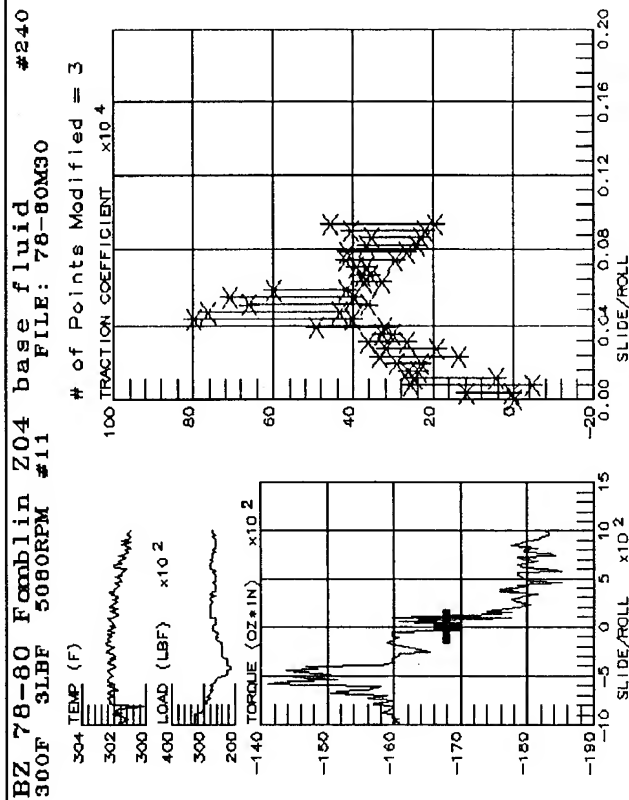
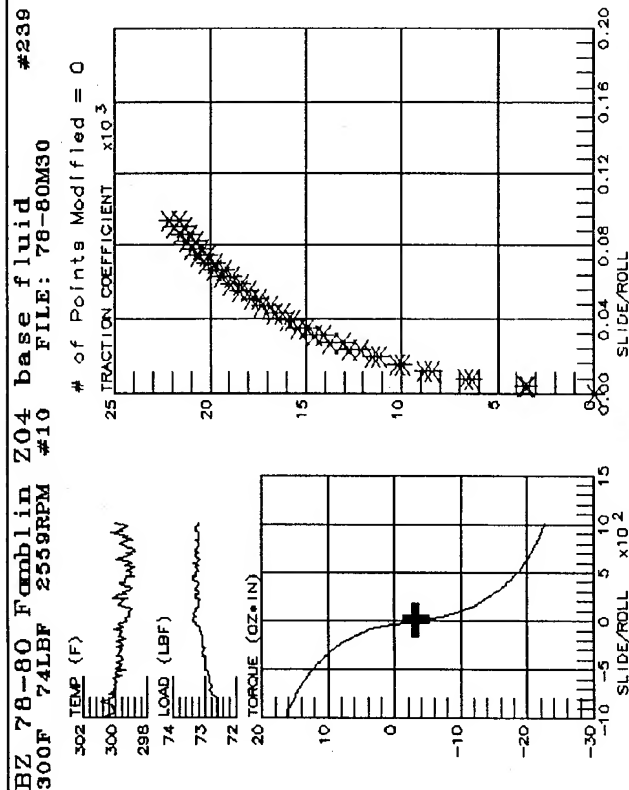
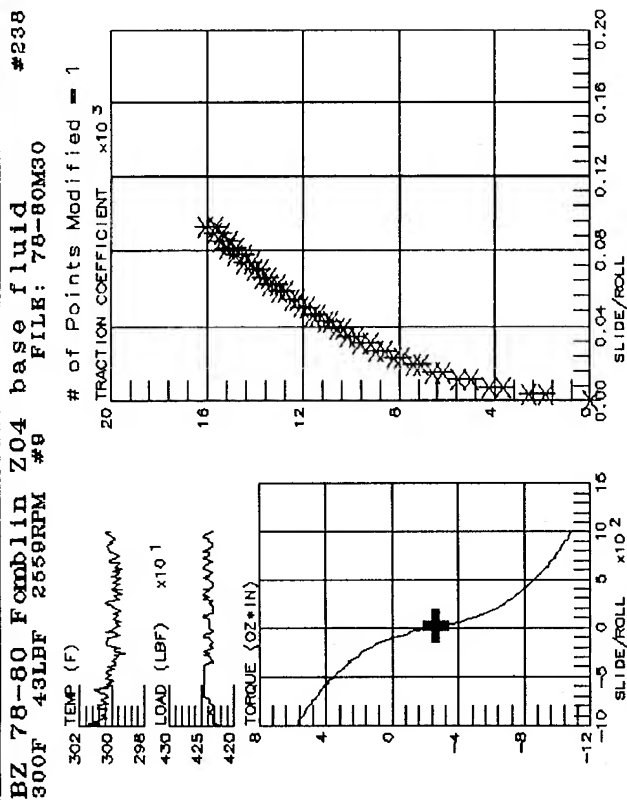
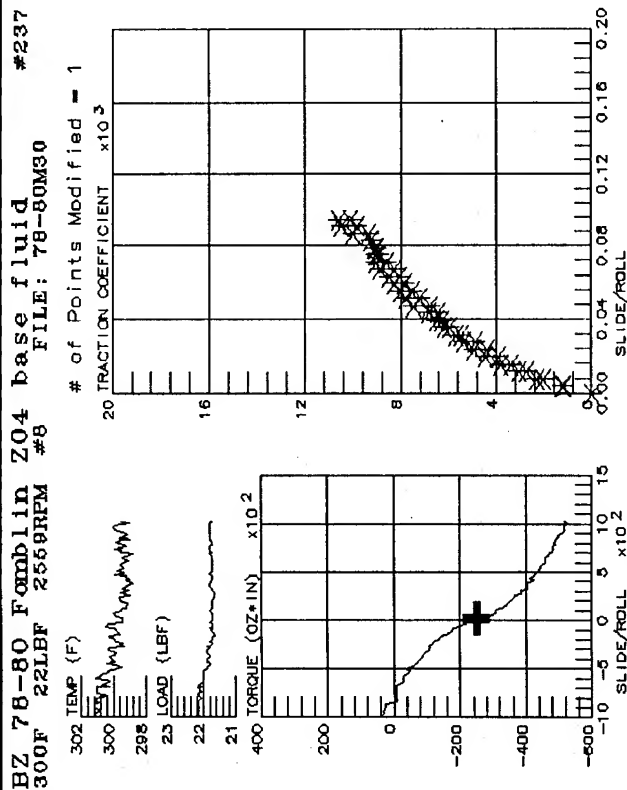


BZ 78-80 Fomblin Z04 base fluid #236
300F 10LBF 2559RPM #7
FILE: 78-80M30

of Points Modified = 3

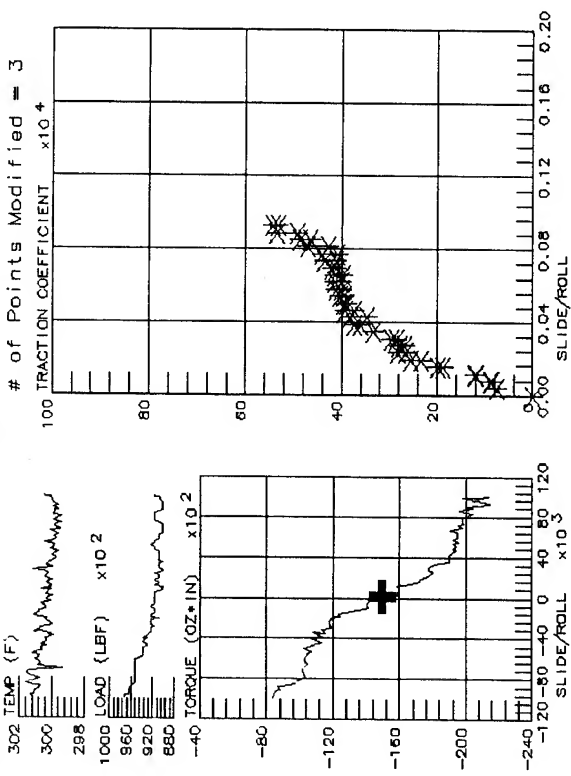


TRACTION DATA

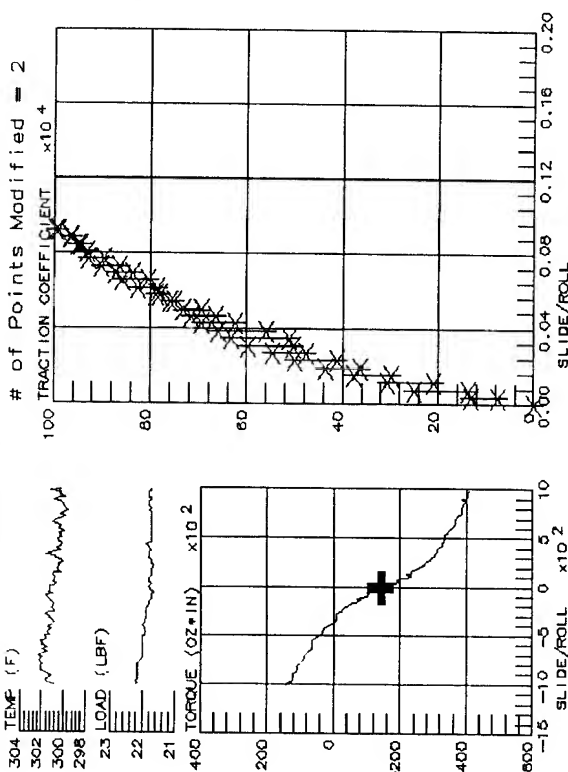


TRACTION DATA

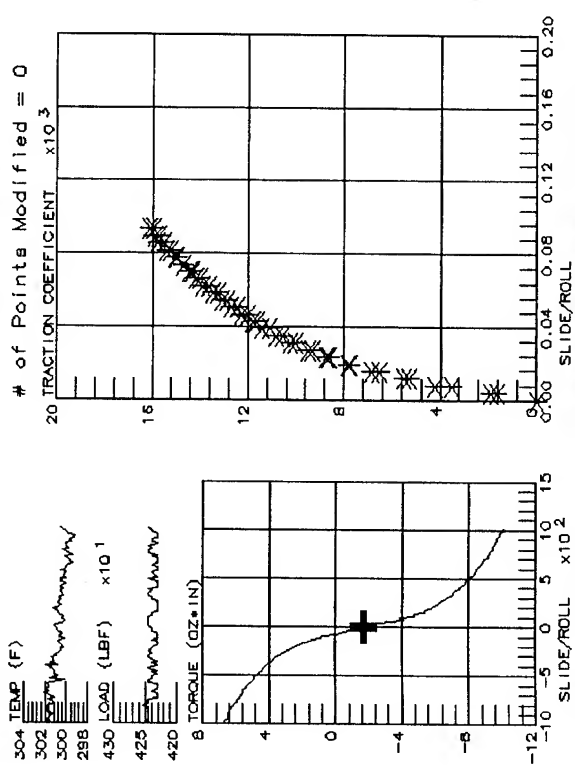
BZ 78-80 Fomblin Z04 base fluid #241
300F 10LBF 5080RPM #12 FILE: 78-80M30



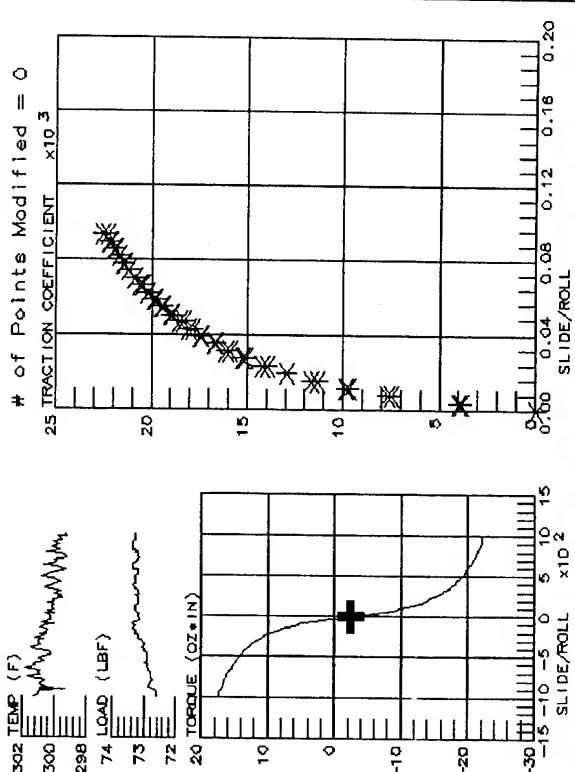
BZ 78-80 Fomblin Z04 base fluid #242
300F 22LBF 5080RPM #13 FILE: 78-80M30



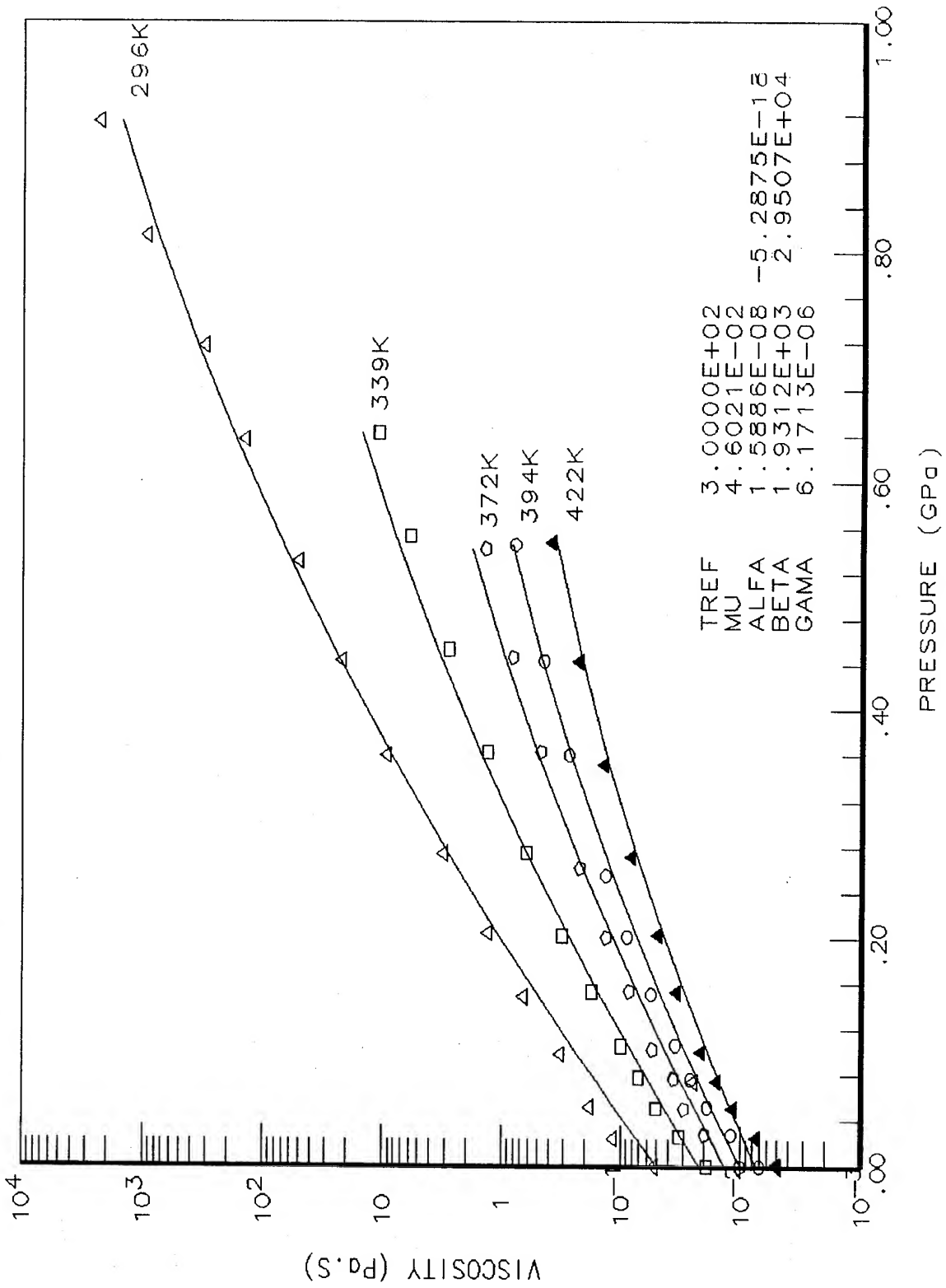
BZ 78-80 Fomblin Z04 base fluid #243
300F 43LBF 5080RPM #14 FILE: 78-80M30



BZ 78-80 Fomblin Z04 base fluid #244
300F 74LBF 5080RPM #15 FILE: 78-80M30

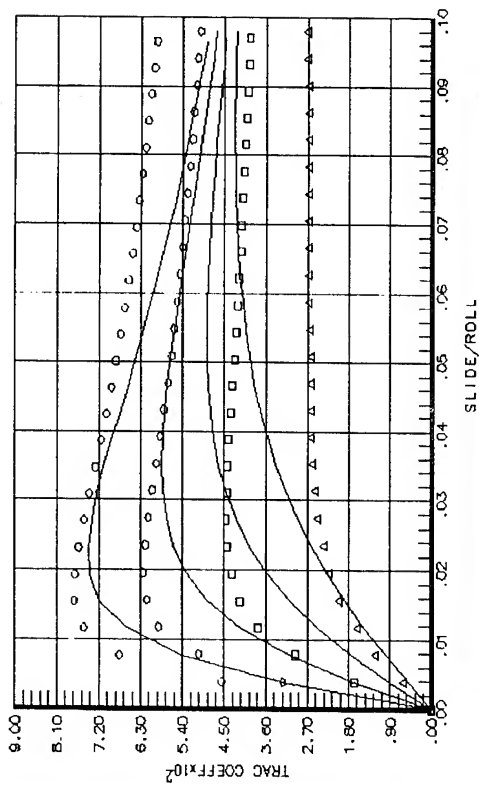


BZ 78-80 Fomblin Z04 Base Viscosity Model Type 2



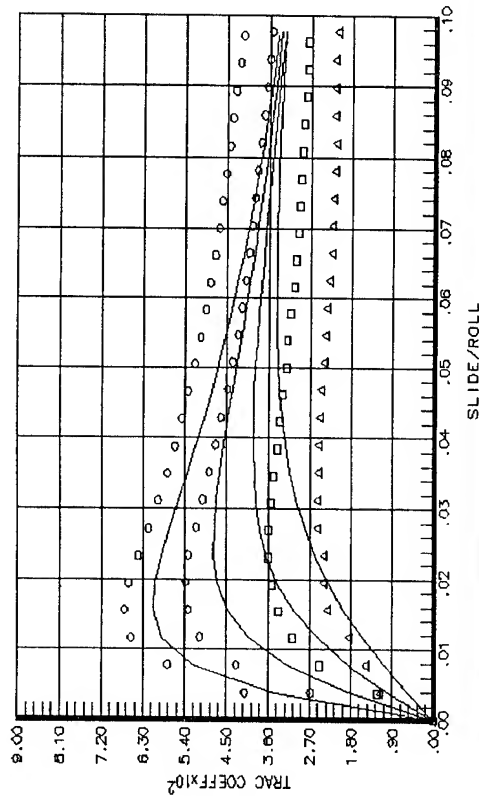
BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1 $bz1.dat$ ALFA* BETA*
 41N 5.10M/S 300K #161 1.12E+01 3.000E-09 1.013E-01
 97N 5.10M/S 300K #162 1.12E+01 3.000E-09 1.013E-01
 189N 5.10M/S 300K #163 1.12E+01 3.000E-09 1.013E-01
 326N 5.10M/S 300K #164 1.12E+01 3.000E-09 1.013E-01



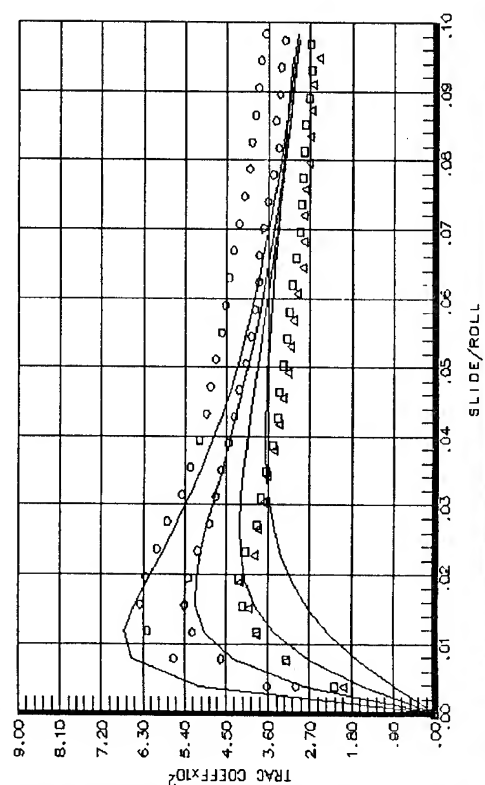
BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1 $bz2.dat$ XMU* ALFA* BETA*
 41N 10.13M/S 300K #186 8.88E+00 3.000E-09 6.513E-02
 97N 10.13M/S 300K #187 8.88E+00 3.000E-09 6.513E-02
 189N 10.13M/S 300K #188 8.88E+00 3.000E-09 6.513E-02
 326N 10.13M/S 300K #189 8.88E+00 3.000E-09 6.513E-02



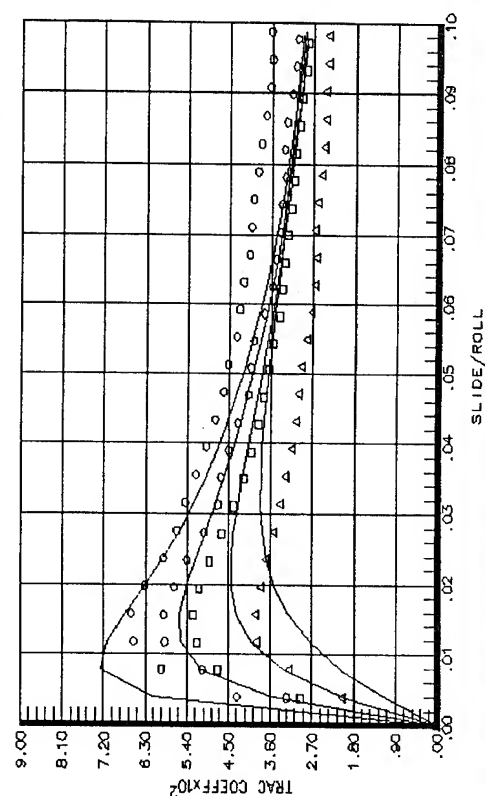
BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1 $bz3.dat$ XMU* ALFA* BETA*
 41N 15.24M/S 300K # 2 1.107E+01 3.000E-09 5.484E-02
 97N 15.24M/S 300K # 3 1.107E+01 3.000E-09 5.484E-02
 189N 15.24M/S 300K # 4 1.107E+01 3.000E-09 5.484E-02
 326N 15.24M/S 300K # 5 1.107E+01 3.000E-09 5.484E-02

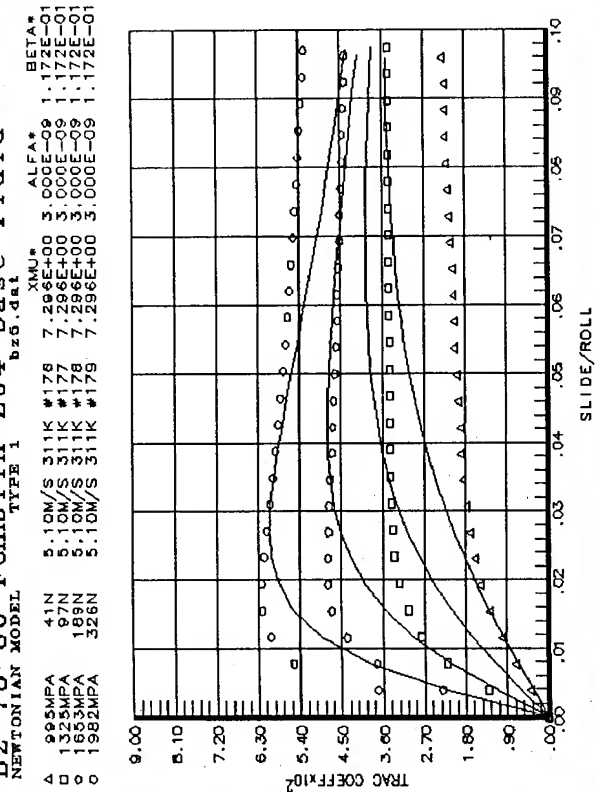


BZ 78-80 Fomblin Z04 base fluid

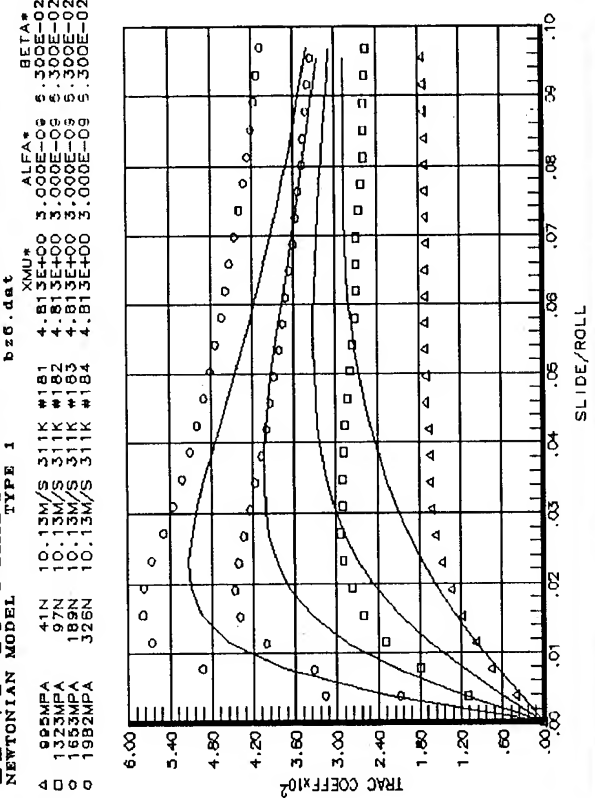
NEWTONIAN MODEL TYPE 1 $bz4.dat$ XMU* ALFA* BETA*
 41N 20.34M/S 300K # 7 1.075E+01 3.000E-09 4.523E-02
 97N 20.34M/S 300K # 8 1.075E+01 3.000E-09 4.523E-02
 189N 20.34M/S 300K # 9 1.075E+01 3.000E-09 4.523E-02
 326N 20.34M/S 300K # 10 1.075E+01 3.000E-09 4.523E-02



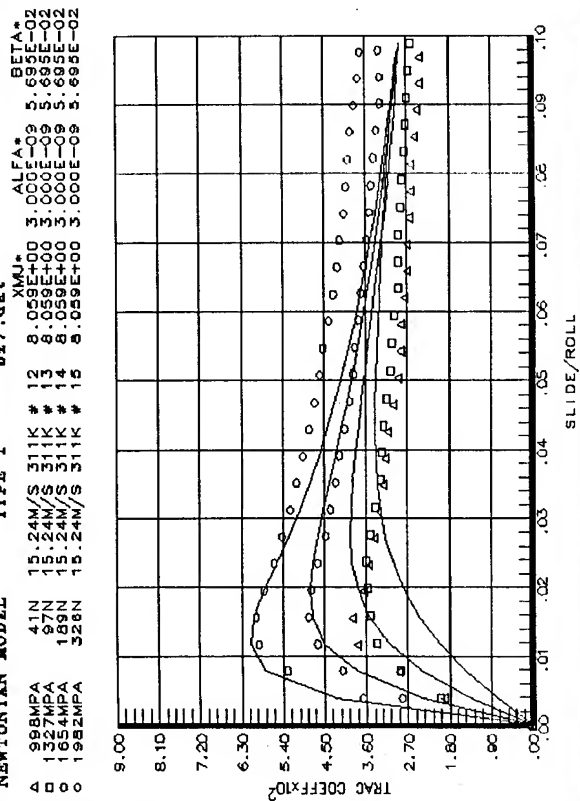
BZ 78-80 Fomblin Z04 base fluid



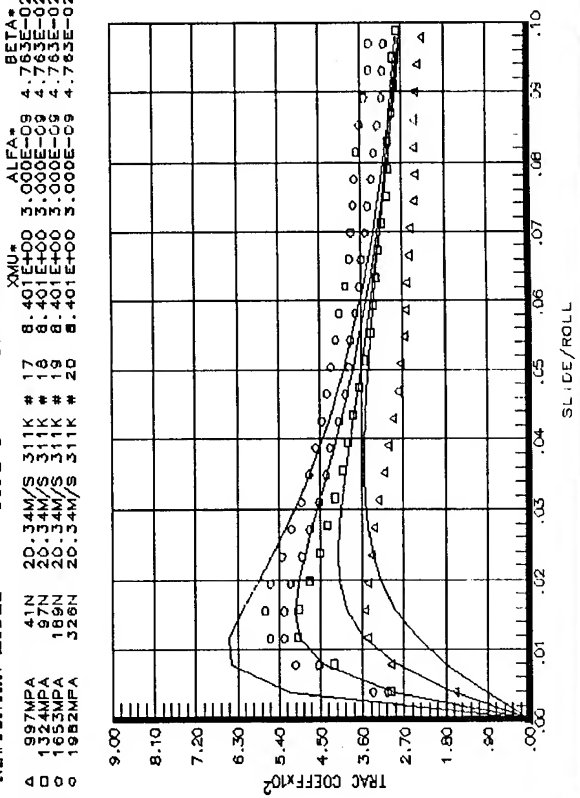
BZ 78-80 Fomblin Z04 base fluid



BZ 78-80 Fomblin Z04 base fluid



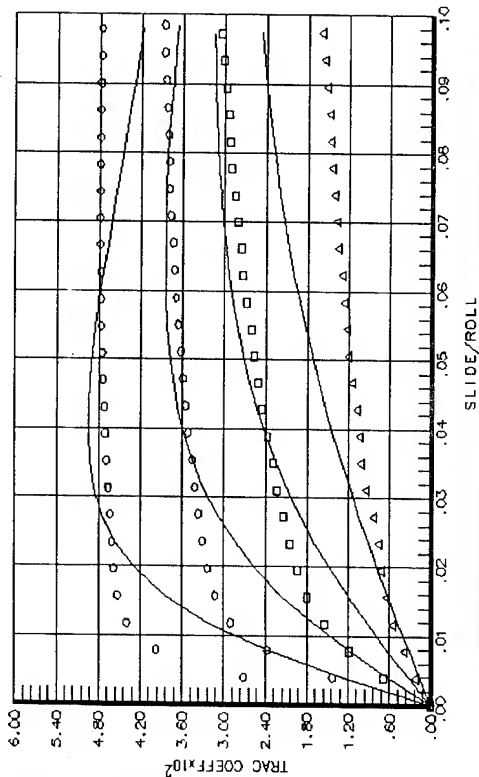
BZ 78-80 Fomblin Z04 base fluid



BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1 b29.dat

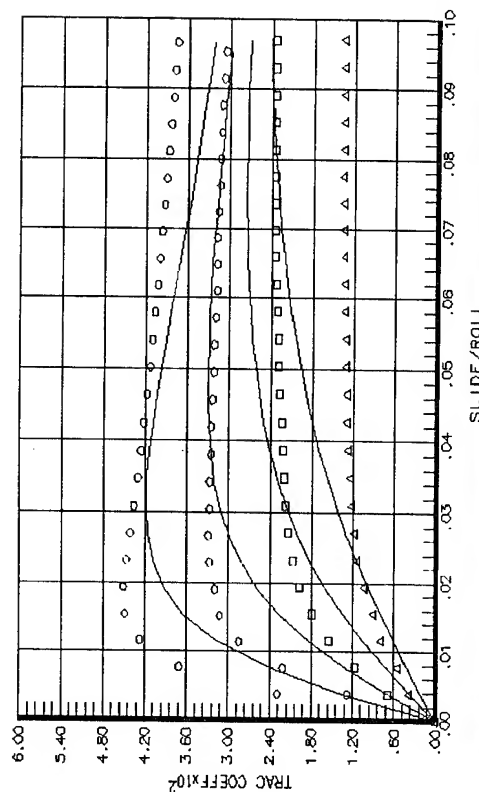
ALPHA*	BETA*
41N 5.10M/S 339K #191	2.557E+00 3.000E-09 1.278E-01
97N 5.10M/S 339K #192	2.557E+00 3.000E-09 1.278E-01
189N 5.10M/S 339K #193	2.557E+00 3.000E-09 1.278E-01
326N 5.10M/S 339K #194	2.557E+00 3.000E-09 1.278E-01



BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1 b210.dat

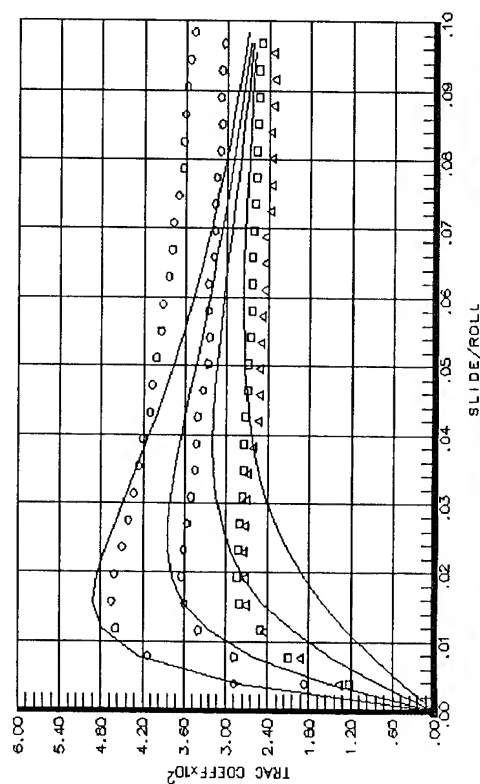
ALPHA*	BETA*
41N 2.13M/S 339K #198	2.227E+00 3.000E-09 7.076E-02
97N 2.13M/S 339K #197	2.227E+00 3.000E-09 7.076E-02
189N 2.13M/S 339K #198	2.227E+00 3.000E-09 7.076E-02
326N 2.13M/S 339K #199	2.227E+00 3.000E-09 7.076E-02



BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1 b211.dat

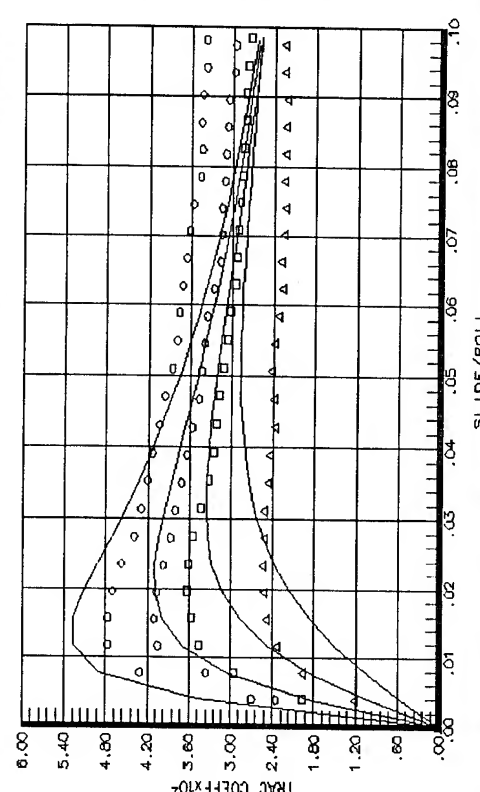
ALPHA*	BETA*
41N 15.24M/S 339K #22	4.012E+00 3.000E-09 6.642E-02
97N 15.24M/S 339K #23	4.012E+00 3.000E-09 6.642E-02
189N 15.24M/S 339K #24	4.012E+00 3.000E-09 6.642E-02
326N 15.24M/S 339K #25	4.012E+00 3.000E-09 6.642E-02



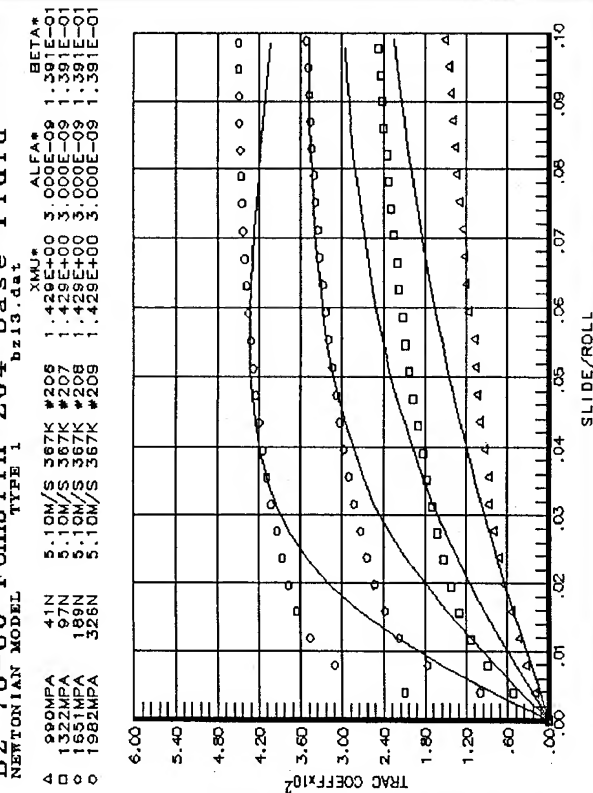
BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1 b212.dat

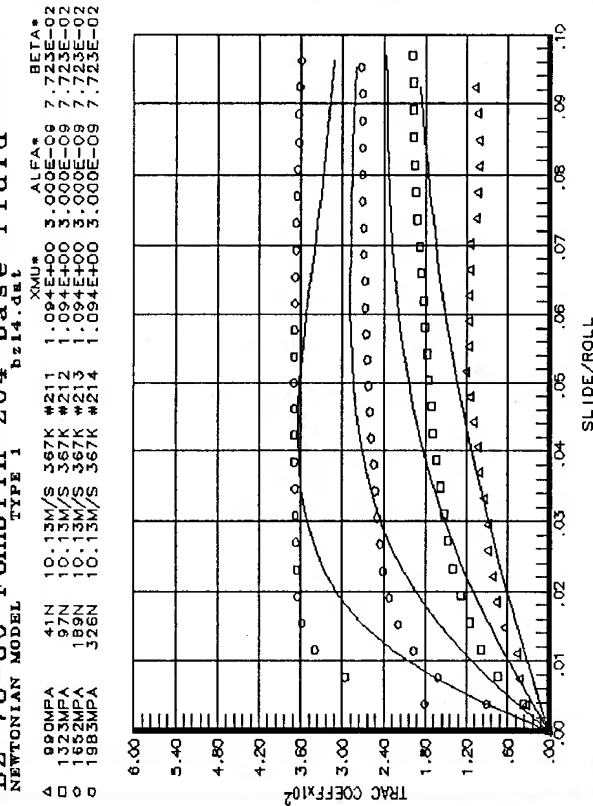
ALPHA*	BETA*
41N 20.34M/S 339K #27	4.082E+00 3.000E-09 5.055E-02
97N 20.34M/S 339K #28	4.082E+00 3.000E-09 5.055E-02
189N 20.34M/S 339K #29	4.082E+00 3.000E-09 5.055E-02
326N 20.34M/S 339K #30	4.082E+00 3.000E-09 5.055E-02



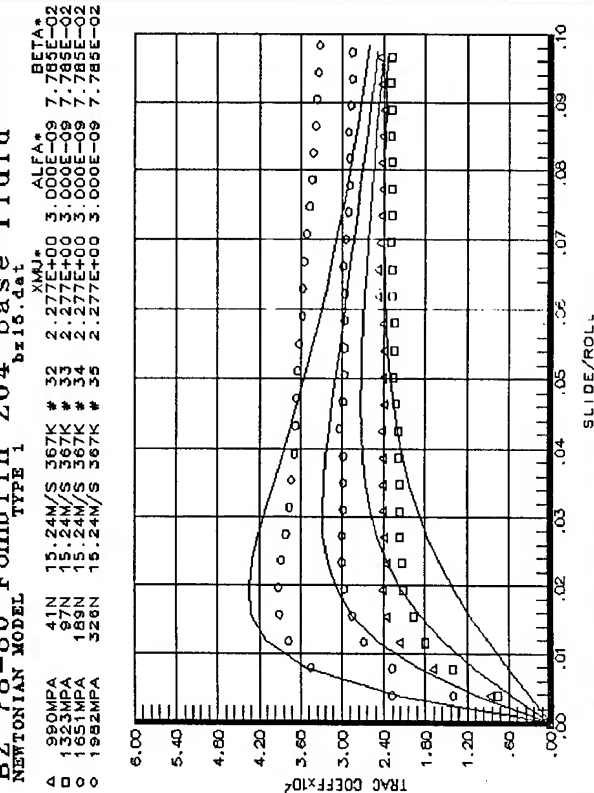
BZ 78-80 Fomblin Z04 base fluid



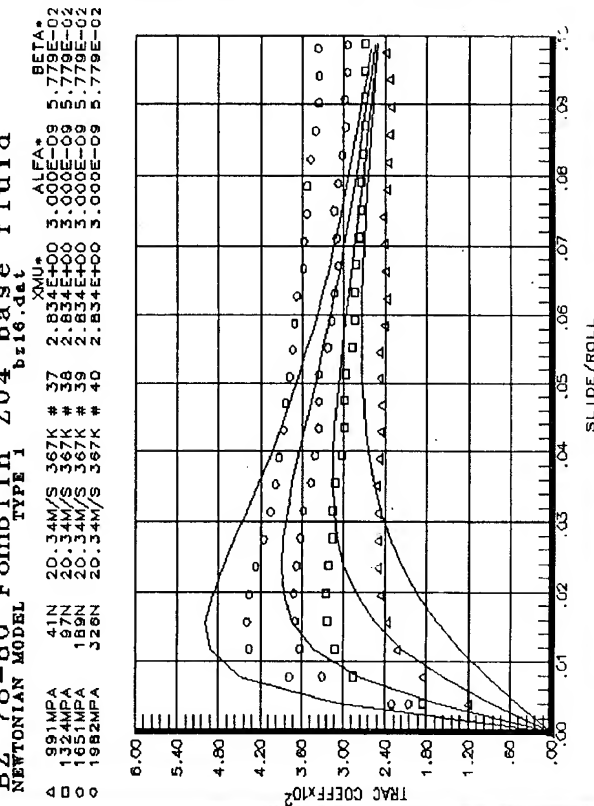
BZ 78-80 Fomblin Z04 base fluid



BZ 78-80 Fomblin Z04 base fluid



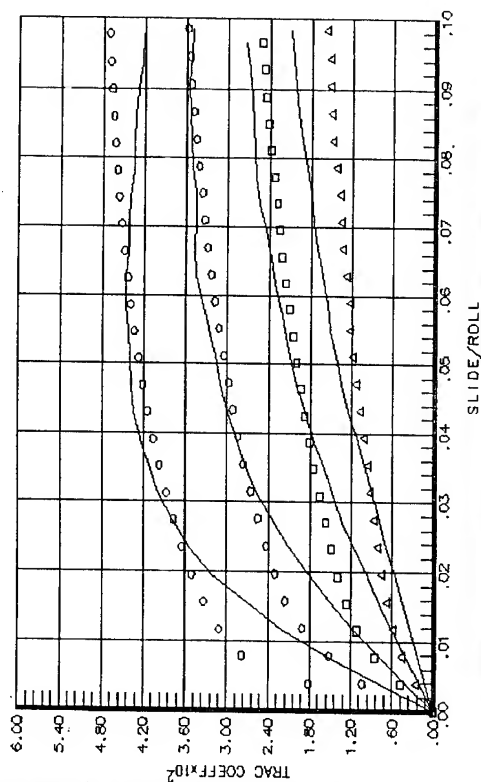
BZ 78-80 Fomblin Z04 base fluid



BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1 b:17.dat

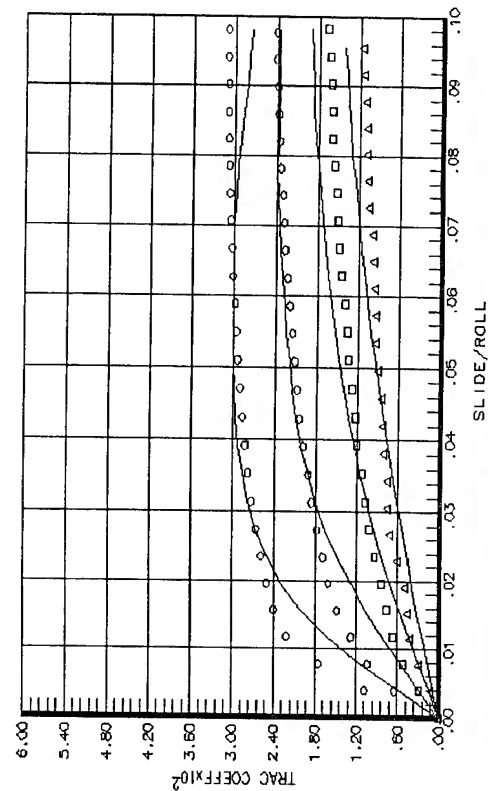
ALPHA*	XMU*	BETA*
41N	5.10M/S 394K #221	1.601E-01
97N	5.10M/S 394K #222	1.601E-01
189N	5.10M/S 394K #223	1.601E-01
328N	5.10M/S 394K #224	1.601E-01



BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1 b:18.dat

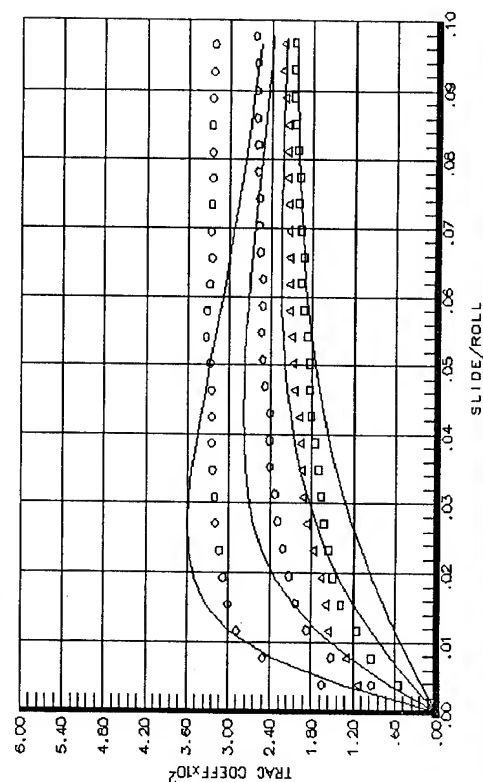
ALPHA*	XMU*	BETA*
41N	10.13M/S 394K #226	8.838E-02
97N	10.13M/S 394K #227	8.838E-02
189N	10.13M/S 394K #228	8.838E-02
328N	10.13M/S 394K #229	8.838E-02



BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1 b:19.dat

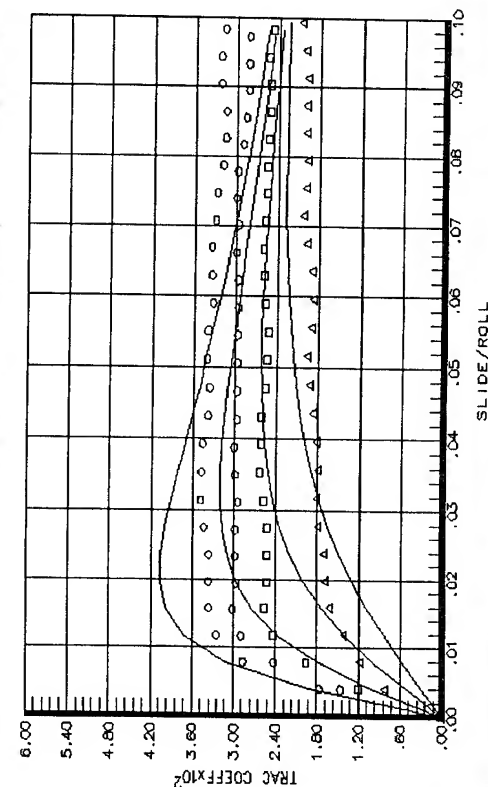
ALPHA*	XMU*	BETA*
41N	15.24M/S 394K #42	8.132E-02
97N	15.24M/S 394K #43	8.132E-02
189N	15.24M/S 394K #44	8.132E-02
328N	15.24M/S 394K #45	8.132E-02



BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1 b:20.dat

ALPHA*	XMU*	BETA*
41N	20.34M/S 394K #52	5.978E-02
97N	20.34M/S 394K #53	5.978E-02
189N	20.34M/S 394K #54	5.978E-02
328N	20.34M/S 394K #55	5.978E-02

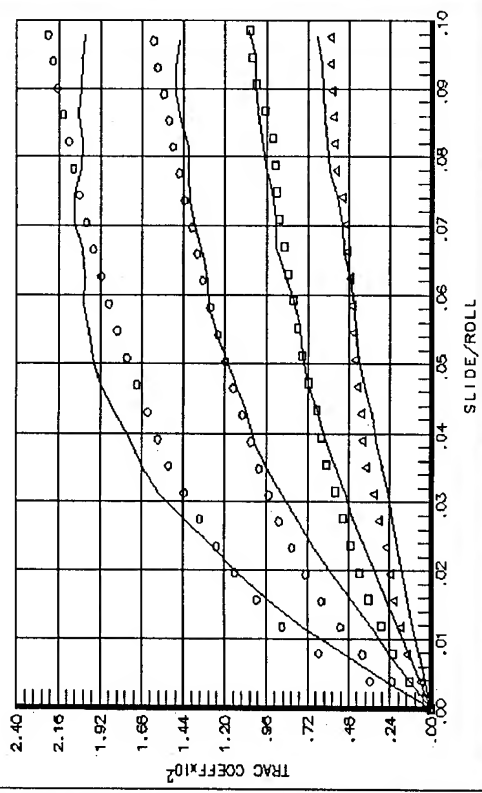


BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1

NEWTONIAN MODEL	41N	97N	189N	326N
998MPa	5.10W/S	422K	#235	
1325MPa	5.10W/S	422K	#237	
1653MPa	5.10W/S	422K	#238	
1982MPa	5.10W/S	422K	#239	

ALFA* 3.000E-01
XMU* 2.519E-01
BETA* 2.519E-01

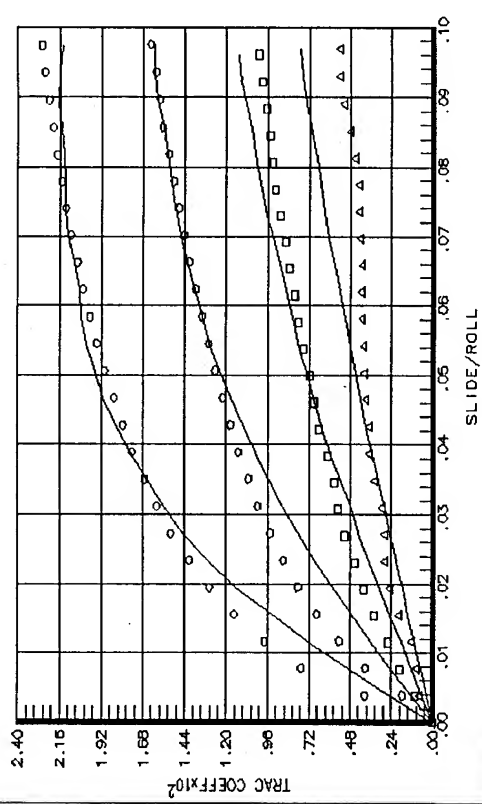


BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1

NEWTONIAN MODEL	41N	97N	189N	326N
998MPa	10.13W/S	422K	#241	
1325MPa	10.13W/S	422K	#242	
1653MPa	10.13W/S	422K	#243	
1982MPa	10.13W/S	422K	#244	

ALFA* 3.000E-01
XMU* 2.075E-01
BETA* 2.075E-01

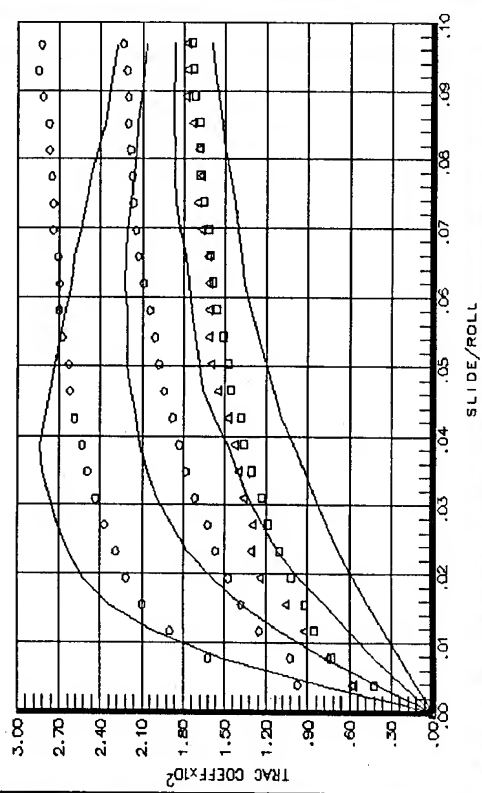


BZ 78-80 Fomblin Z04 base fluid

NEWTONIAN MODEL TYPE 1

NEWTONIAN MODEL	41N	97N	189N	326N
998MPa	15.24W/S	422K	#57	
1325MPa	15.24W/S	422K	#58	
1653MPa	15.24W/S	422K	#59	
1982MPa	15.24W/S	422K	#60	

ALFA* 3.000E-01
XMU* 6.034E-01
BETA* 6.034E-01



6. Traction Data Set E: 92-162 Fomblin Z + 0.5% Ausimont

Data set name: CF 92-162 Fomblin Z-04 +0.5% Ausimont
 Rolling radii [Disks 1 & 2] (in): 0.75 0.75
 Crown radii [Disks 1 & 2] (in): 0.73 0.70

Number of data sets found = 96

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
1	100.00	2.56	9135.00	11165.00	10150.00	50	cf100h #1
2	100.00	8.63	9135.00	11165.00	10150.00	50	cf100h #2
3	100.00	20.45	9135.00	11165.00	10150.00	50	cf100h #3
4	100.00	69.01	9135.00	11165.00	10150.00	50	cf100h #4
5	100.00	2.56	572.00	699.00	635.50	50	cf100m #1
6	100.00	8.63	572.00	699.00	635.50	50	cf100m #2
7	100.00	20.45	572.00	699.00	635.50	50	cf100m #3
8	100.00	69.01	572.00	699.00	635.50	50	cf100m #4
9	100.00	2.56	2295.00	2805.00	2550.00	50	cf100m #5
10	100.00	8.63	2295.00	2805.00	2550.00	50	cf100m #6
11	100.00	20.45	2295.00	2805.00	2550.00	50	cf100m #7
12	100.00	69.01	2295.00	2805.00	2550.00	50	cf100m #8
13	100.00	2.56	4590.00	5610.00	5100.00	50	cf100m #9
14	100.00	8.63	4590.00	5610.00	5100.00	50	cf100m #10
15	100.00	20.45	4590.00	5610.00	5100.00	50	cf100m #11
16	100.00	69.01	4590.00	5610.00	5100.00	50	cf100m #12
17	150.00	2.56	9135.00	11165.00	10150.00	50	cf150h #1
18	150.00	8.63	9135.00	11165.00	10150.00	50	cf150h #2
19	150.00	20.45	9135.00	11165.00	10150.00	50	cf150h #3
20	150.00	69.01	9135.00	11165.00	10150.00	50	cf150h #4
21	150.00	2.56	572.00	699.00	635.50	50	cf150m #1
22	150.00	8.63	572.00	699.00	635.50	50	cf150m #2
23	150.00	20.45	572.00	699.00	635.50	50	cf150m #3
24	150.00	69.01	572.00	699.00	635.50	50	cf150m #4
25	150.00	2.56	2295.00	2805.00	2550.00	50	cf150m #5
26	150.00	8.63	2295.00	2805.00	2550.00	50	cf150m #6
27	150.00	20.45	2295.00	2805.00	2550.00	50	cf150m #7
28	150.00	69.01	2295.00	2805.00	2550.00	50	cf150m #8
29	150.00	2.56	4590.00	5610.00	5100.00	50	cf150m #9
30	150.00	8.63	4590.00	5610.00	5100.00	50	cf150m #10
31	150.00	20.45	4590.00	5610.00	5100.00	50	cf150m #11
32	150.00	69.01	4590.00	5610.00	5100.00	50	cf150m #12
33	200.00	2.56	9135.00	11165.00	10150.00	50	cf200h #1
34	200.00	8.63	9135.00	11165.00	10150.00	50	cf200h #2
35	200.00	20.45	9135.00	11165.00	10150.00	50	cf200h #3
36	200.00	69.01	9135.00	11165.00	10150.00	50	cf200h #4
37	200.00	2.56	572.00	699.00	635.50	50	cf200m #1
38	200.00	8.63	572.00	699.00	635.50	50	cf200m #2
39	200.00	20.45	572.00	699.00	635.50	50	cf200m #3
40	200.00	69.01	572.00	699.00	635.50	50	cf200m #4
41	200.00	2.56	2295.00	2805.00	2550.00	50	cf200m #5
42	200.00	8.63	2295.00	2805.00	2550.00	50	cf200m #6
43	200.00	20.45	2295.00	2805.00	2550.00	50	cf200m #7
44	200.00	69.01	2295.00	2805.00	2550.00	50	cf200m #8
45	200.00	2.56	4590.00	5610.00	5100.00	50	cf200m #9
46	200.00	8.63	4590.00	5610.00	5100.00	50	cf200m #10
47	200.00	20.45	4590.00	5610.00	5100.00	50	cf200m #11
48	200.00	69.01	4590.00	5610.00	5100.00	50	cf200m #12
49	250.00	2.56	9135.00	11165.00	10150.00	50	cf250h #1
50	250.00	8.63	9135.00	11165.00	10150.00	50	cf250h #2

Data set: Cf 92-162 Fomblin Z-04 +0.5% Ausimontcontinued

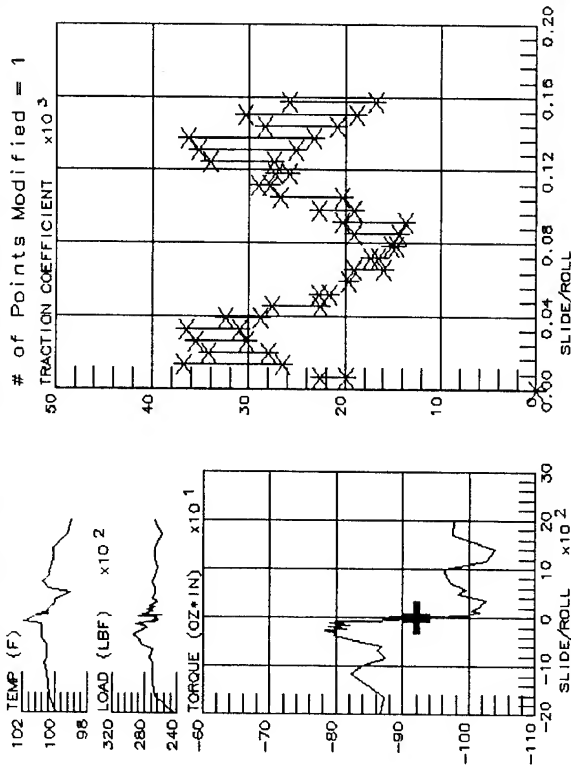
	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
51	250.00	20.45	9135.00	11165.00	10150.00	50	cf250h #3
52	250.00	69.01	9135.00	11165.00	10150.00	50	cf250h #4
53	250.00	2.56	572.00	699.00	635.50	50	cf250m #1
54	250.00	8.63	572.00	699.00	635.50	50	cf250m #2
55	250.00	20.45	572.00	699.00	635.50	50	cf250m #3
56	250.00	69.01	572.00	699.00	635.50	50	cf250m #4
57	250.00	2.56	2295.00	2805.00	2550.00	50	cf250m #5
58	250.00	8.63	2295.00	2805.00	2550.00	50	cf250m #6
59	250.00	20.45	2295.00	2805.00	2550.00	50	cf250m #7
60	250.00	69.01	2295.00	2805.00	2550.00	50	cf250m #8
61	250.00	2.56	4590.00	5610.00	5100.00	50	cf250m #9
62	250.00	8.63	4590.00	5610.00	5100.00	50	cf250m #10
63	250.00	20.45	4590.00	5610.00	5100.00	50	cf250m #11
64	250.00	69.01	4590.00	5610.00	5100.00	50	cf250m #12
65	300.00	2.56	9135.00	11165.00	10150.00	50	cf300h #1
66	300.00	8.63	9135.00	11165.00	10150.00	50	cf300h #2
67	300.00	20.45	9135.00	11165.00	10150.00	50	cf300h #3
68	300.00	69.01	9135.00	11165.00	10150.00	50	cf300h #4
69	300.00	2.56	572.00	699.00	635.50	50	cf300m #1
70	300.00	8.63	572.00	699.00	635.50	50	cf300m #2
71	300.00	20.45	572.00	699.00	635.50	50	cf300m #3
72	300.00	69.01	572.00	699.00	635.50	50	cf300m #4
73	300.00	2.56	2295.00	2805.00	2550.00	50	cf300m #5
74	300.00	8.63	2295.00	2805.00	2550.00	50	cf300m #6
75	300.00	20.45	2295.00	2805.00	2550.00	50	cf300m #7
76	300.00	69.01	2295.00	2805.00	2550.00	50	cf300m #8
77	300.00	2.56	4590.00	5610.00	5100.00	50	cf300m #9
78	300.00	8.63	4590.00	5610.00	5100.00	50	cf300m #10
79	300.00	20.45	4590.00	5610.00	5100.00	50	cf300m #11
80	300.00	69.01	4590.00	5610.00	5100.00	50	cf300m #12
81	80.00	2.56	9135.00	11165.00	10150.00	50	cf80h #1
82	80.00	8.63	9135.00	11165.00	10150.00	50	cf80h #2
83	80.00	20.45	9135.00	11165.00	10150.00	50	cf80h #3
84	80.00	69.01	9135.00	11165.00	10150.00	50	cf80h #4
85	80.00	2.56	572.00	699.00	635.50	50	cf80m #1
86	80.00	8.63	572.00	699.00	635.50	50	cf80m #2
87	80.00	20.45	572.00	699.00	635.50	50	cf80m #3
88	80.00	69.01	572.00	699.00	635.50	50	cf80m #4
89	80.00	2.56	2295.00	2805.00	2550.00	50	cf80m #5
90	80.00	8.63	2295.00	2805.00	2550.00	50	cf80m #6
91	80.00	20.45	2295.00	2805.00	2550.00	50	cf80m #7
92	80.00	69.01	2295.00	2805.00	2550.00	50	cf80m #8
93	80.00	2.56	4590.00	5610.00	5100.00	50	cf80m #9
94	80.00	8.63	4590.00	5610.00	5100.00	50	cf80m #10
95	80.00	20.45	4590.00	5610.00	5100.00	50	cf80m #11
96	80.00	69.01	4590.00	5610.00	5100.00	50	cf80m #12

Summary of Select Data Files

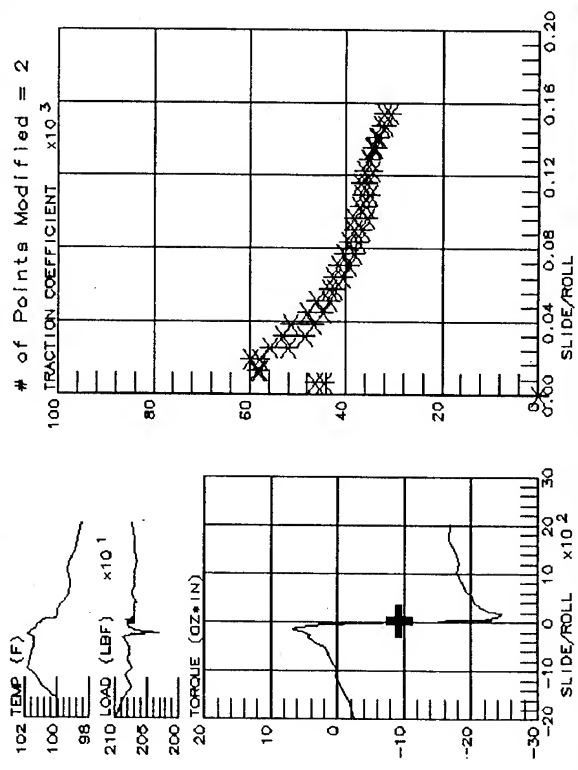
Filename	Temp	RollRpm	DataCurve #
cf1.dat	80.00	635.50	86 87 88
cf2.dat	80.00	2550.00	90 91 92
cf3.dat	80.00	5100.00	94 95 96
cf4.dat	80.00	10150.00	82 83 84
cf5.dat	100.00	635.50	6 7 8
cf6.dat	100.00	2550.00	10 11 12
cf7.dat	100.00	5100.00	14 15 16
cf8.dat	100.00	10150.00	2 3 4
cf9.dat	150.00	635.50	22 23 24
cf10.dat	150.00	2550.00	26 27 28
cf11.dat	150.00	5100.00	30 31 32
cf12.dat	150.00	10150.00	18 19 20
cf13.dat	200.00	635.50	38 39 40
cf14.dat	200.00	2550.00	42 43 44
cf15.dat	200.00	5100.00	46 47 48
cf16.dat	200.00	10150.00	34 35 36
cf17.dat	250.00	635.50	54 55 56
cf18.dat	250.00	2550.00	58 59 60
cf19.dat	250.00	5100.00	62 63 64
cf20.dat	250.00	10150.00	50 51 52
cf21.dat	300.00	635.50	70 71 72
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cf23.dat	300.00	5100.00	78 79 80
cf24.dat	300.00	10150.00	66 67 68

TRACTION DATA

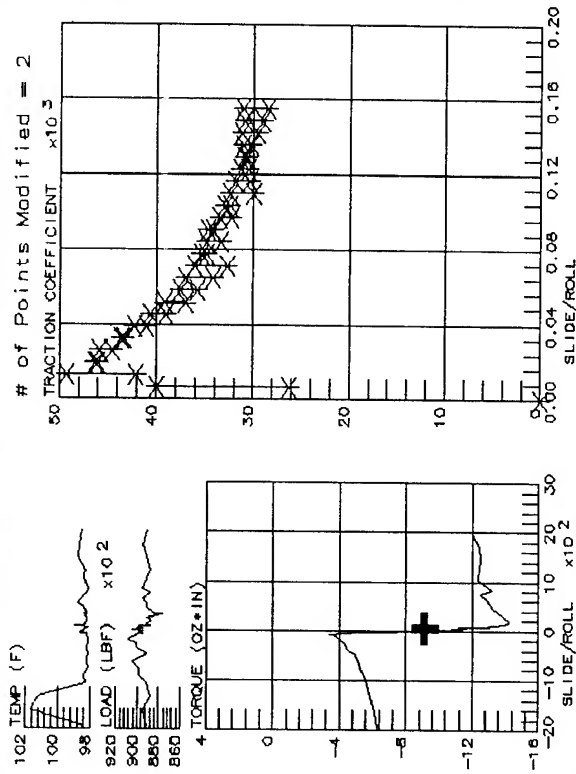
CF 92-162 Fomblin Z-04 +0.5% Ausimont #1
100F 3LBF 10150RPM #1



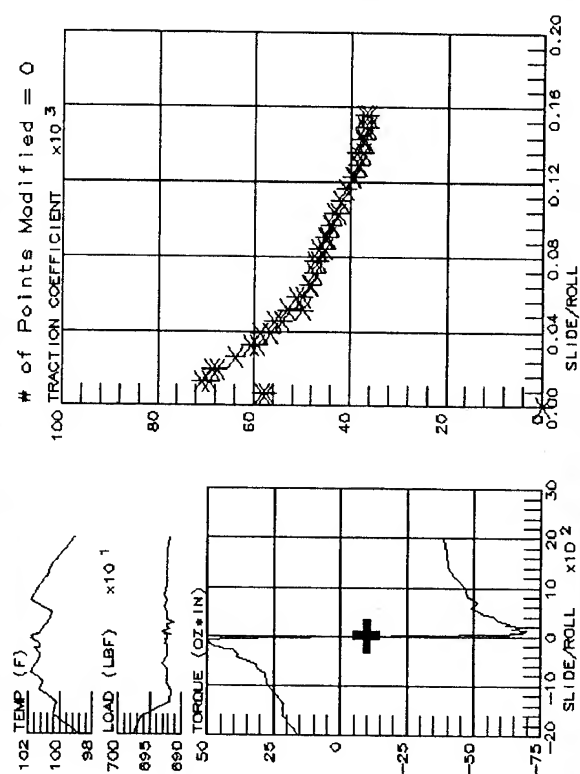
CF 92-162 Fomblin Z-04 +0.5% Ausimont #3
100F 21LBF 10150RPM #3



CF 92-162 Fomblin Z-04 +0.5% Ausimont #2
100F 9LBF 10150RPM #2

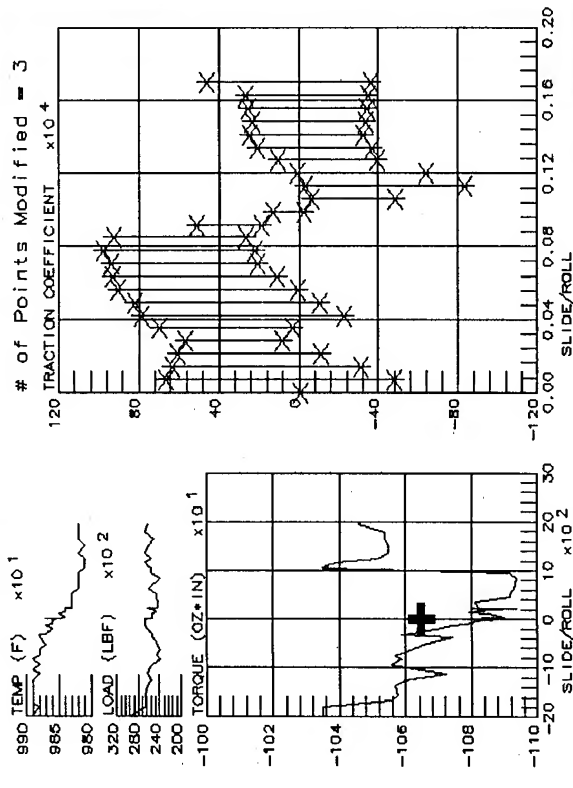


CF 92-162 Fomblin Z-04 +0.5% Ausimont #4
100F 70LBF 10150RPM #4

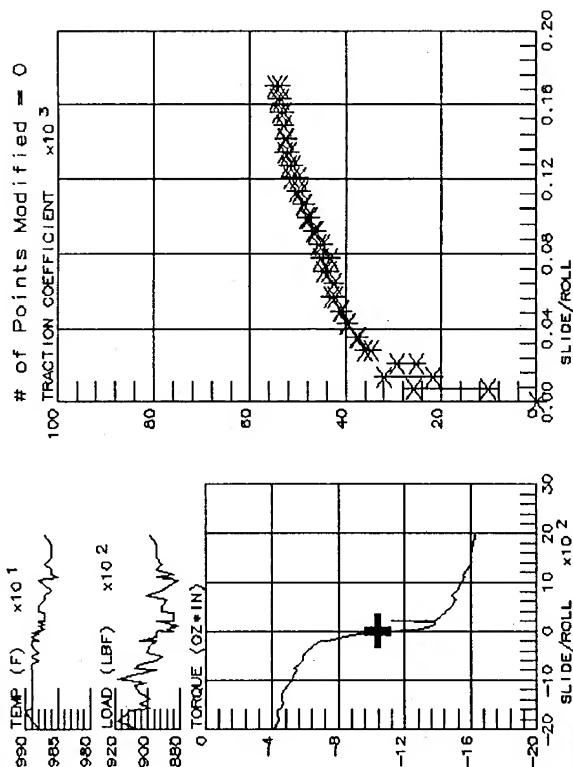


TRACTION DATA

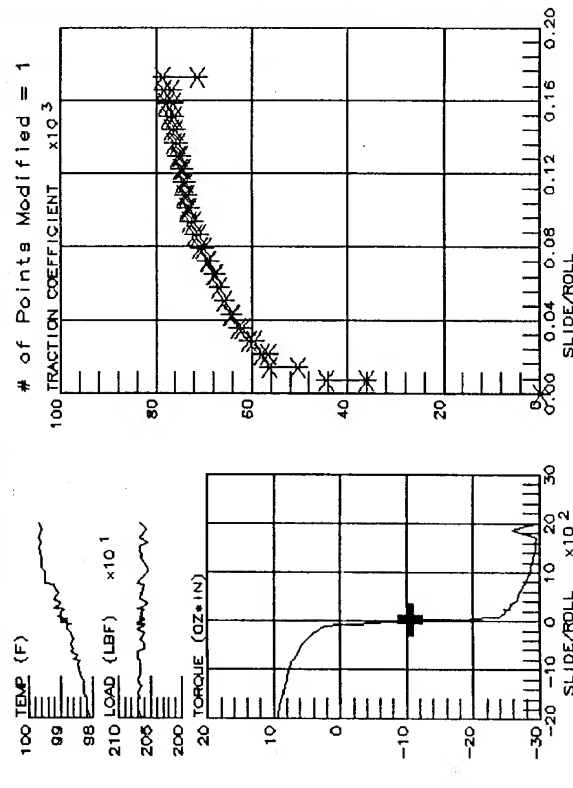
CF 92-162 Fomblin Z-04 +0.5% Ausimont #5
100F 3LBF 636RPM #1



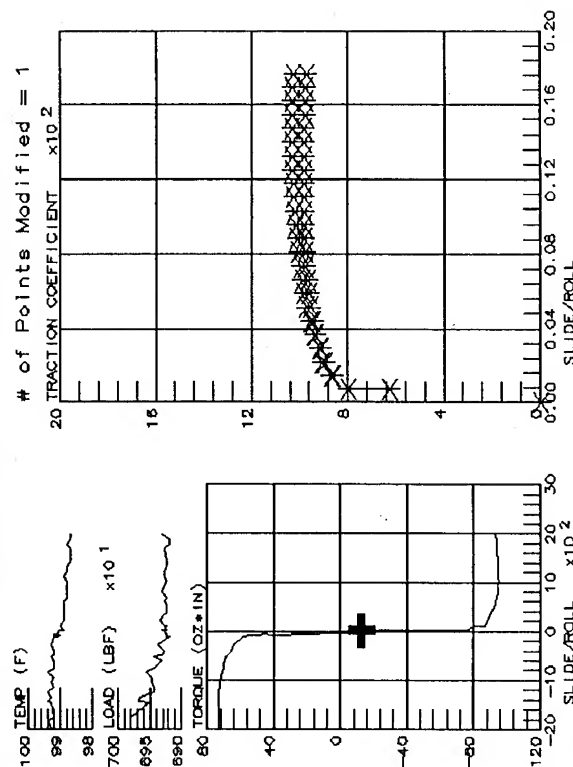
CF 92-162 Fomblin Z-04 +0.5% Ausimont #8
100F 9LBF 636RPM #2



CF 92-162 Fomblin Z-04 +0.5% Ausimont #7
100F 21LBF 636RPM #3

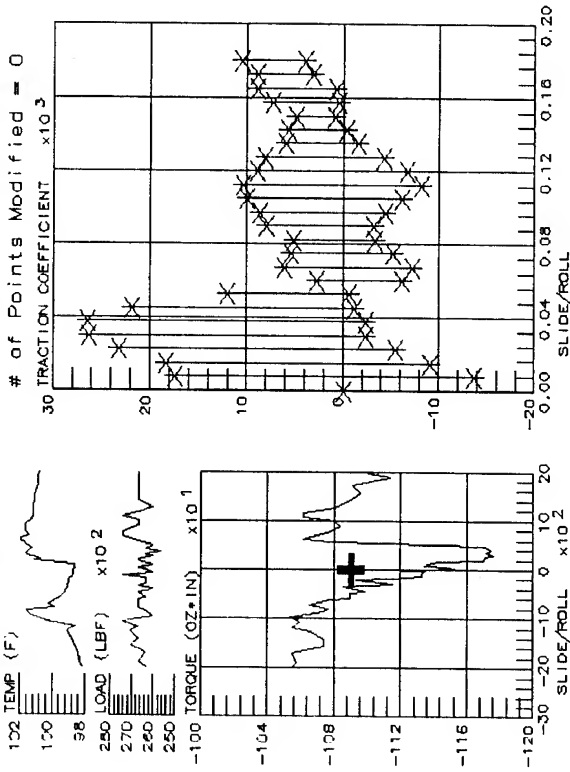


CF 92-162 Fomblin Z-04 +0.5% Ausimont #8
100F 70LBF 636RPM #4

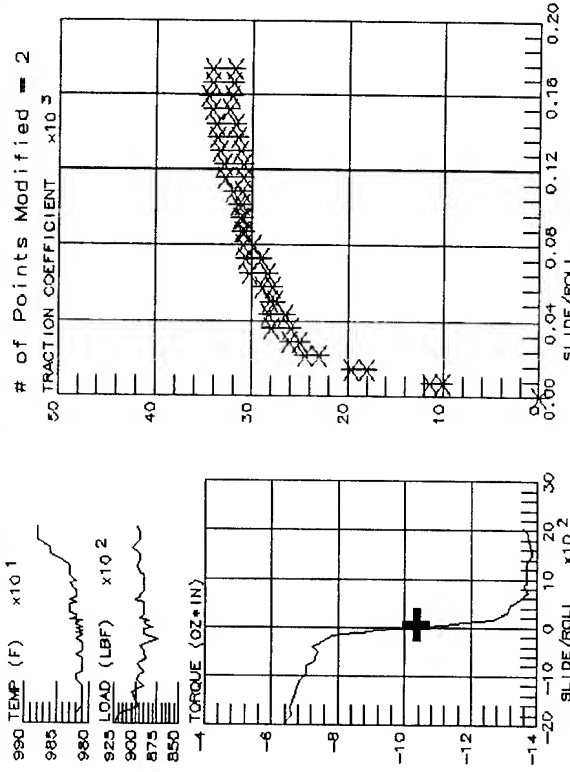


TRACTION DATA

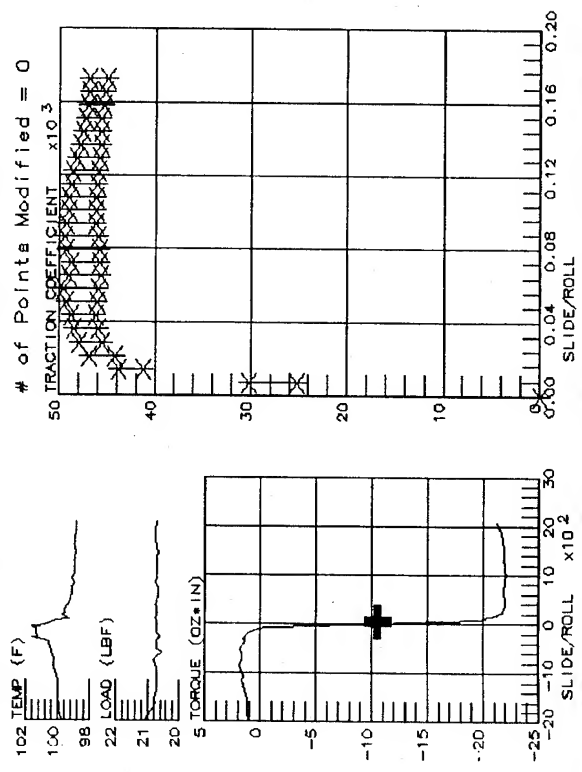
CF 92-162 Fomblin Z-04 +0.5% Ausimont #9
100F 3LBF 2550RPM #6



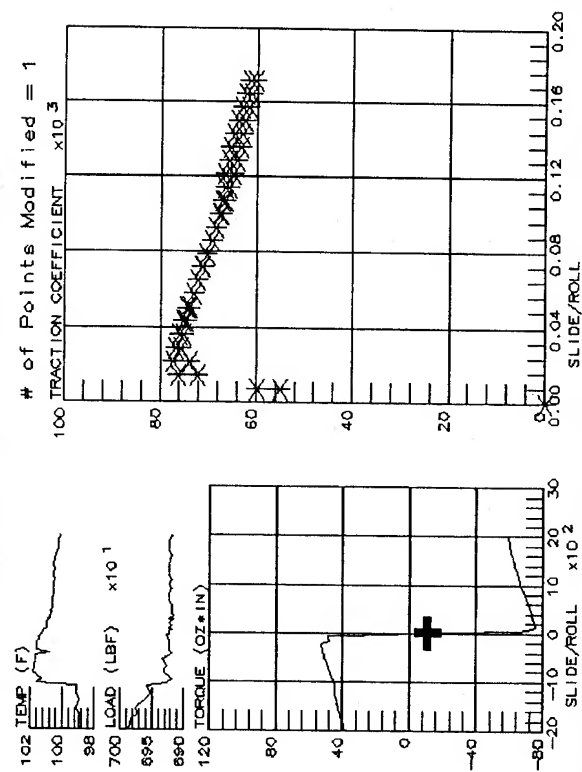
CF 92-162 Fomblin Z-04 +0.5% Ausimont #10
100F 9LBF 2550RPM #8



CF 92-162 Fomblin Z-04 +0.5% Ausimont #11
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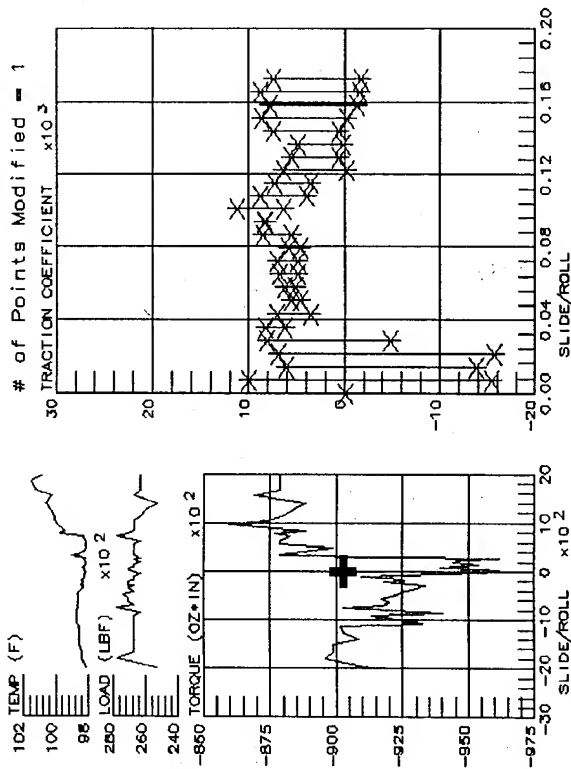


CF 92-162 Fomblin Z-04 +0.5% Ausimont #12
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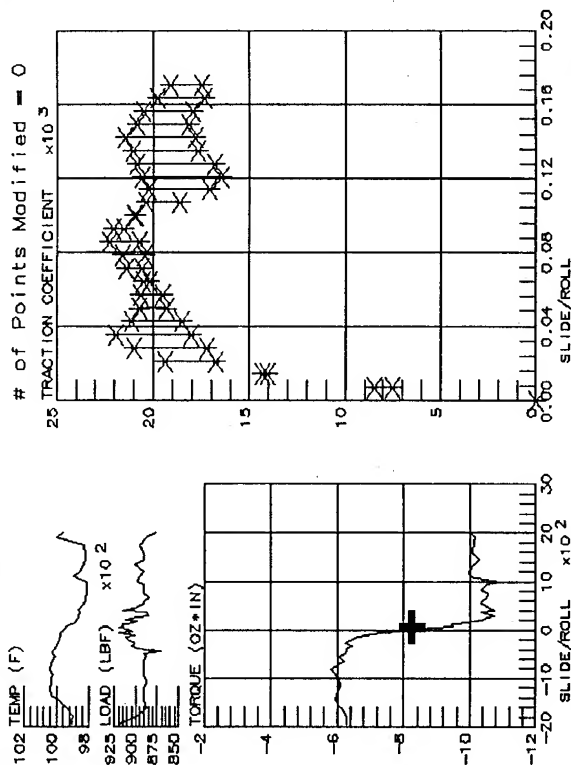


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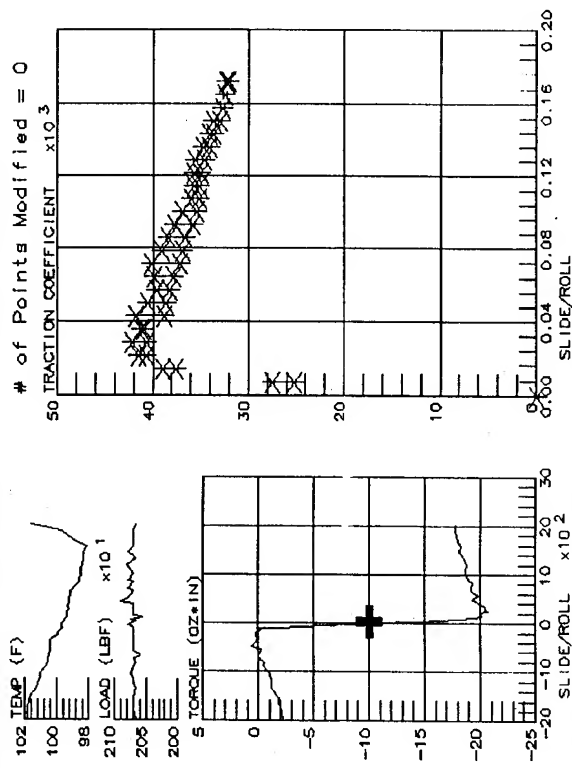
CF 92-162 Fomblin Z-04 +0.5% Ausimont #13
100F 3LBF 5100RPM #9 FILE: cf100m



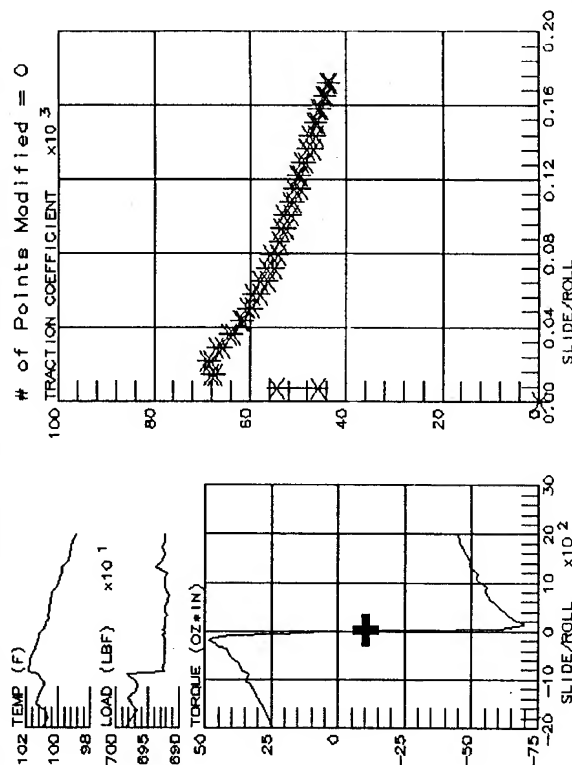
CF 92-162 Fomblin Z-04 +0.5% Ausimont #14
100F 9LBF 5100RPM #10 FILE: cf100m



CF 92-162 Fomblin Z-04 +0.5% Ausimont #15
100F 21LBF 5100RPM #11 FILE: cf100m

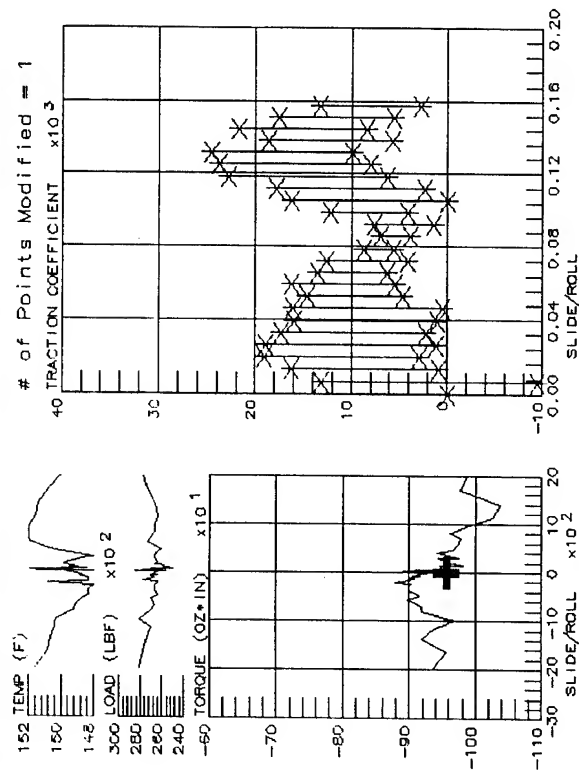


CF 92-162 Fomblin Z-04 +0.5% Ausimont #16
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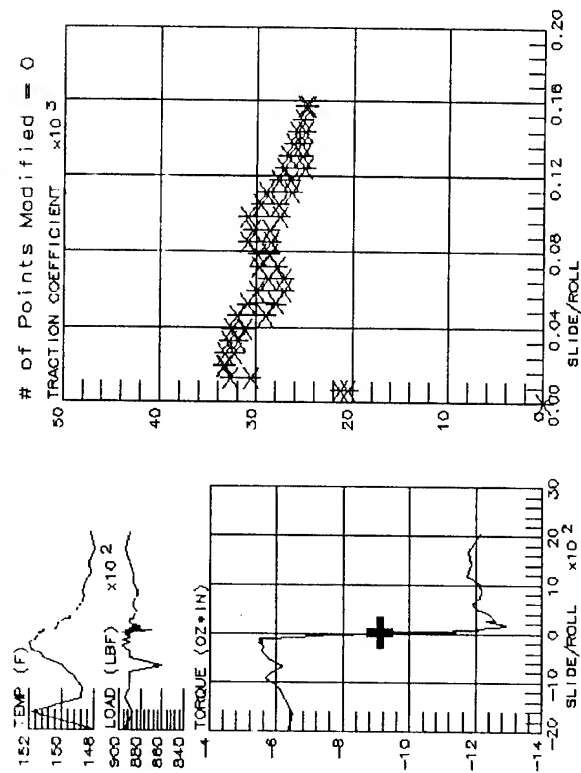


TRACTION DATA

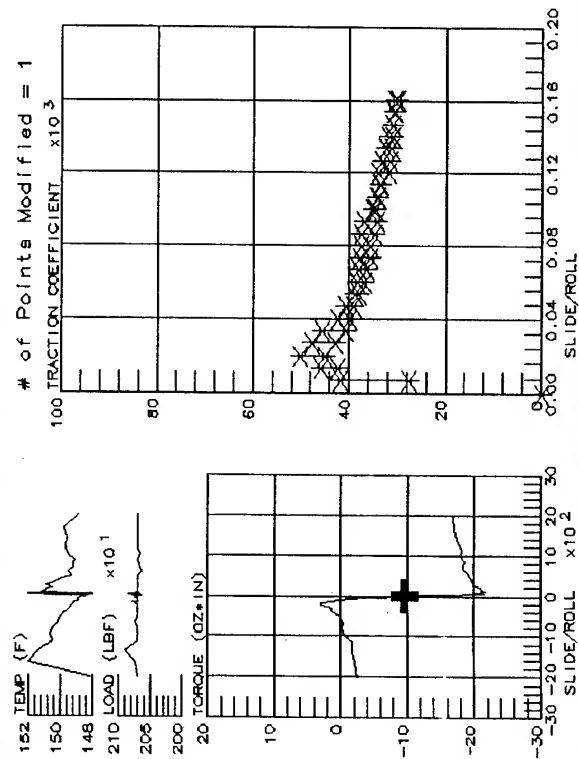
CF 92-162 Fomblin Z-04 +0.5% Ausimont #17
150F 3LBF 10150RPM #1



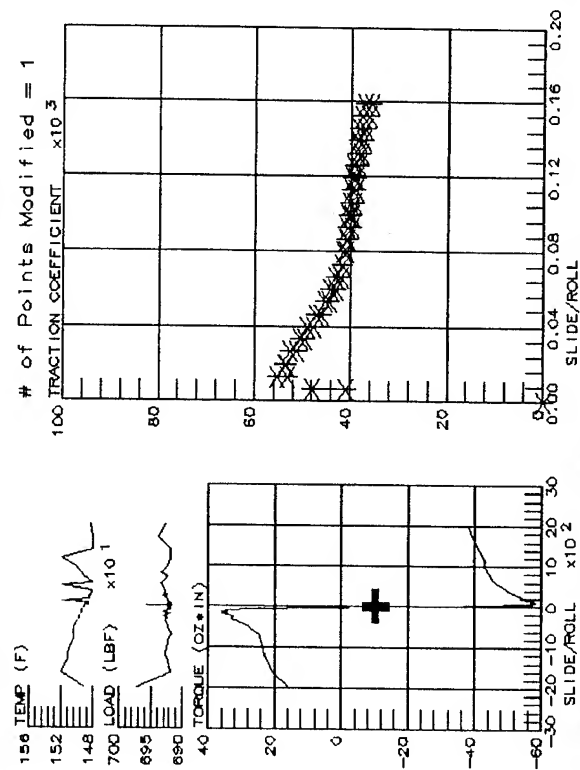
CF 92-162 Fomblin Z-04 +0.5% Ausimont #18
150F 9LBF 10150RPM #2



CF 92-162 Fomblin Z-04 +0.5% Ausimont #19
150F 21LBF 10150RPM #3

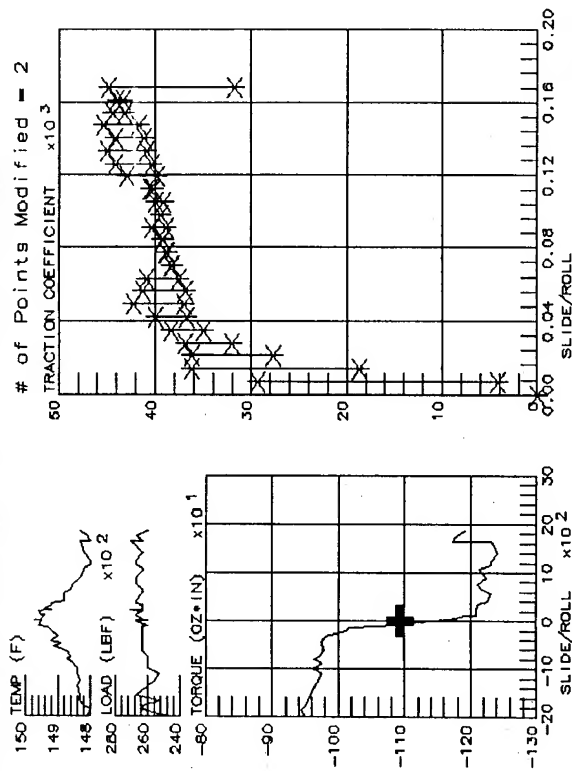


CF 92-162 Fomblin Z-04 +0.5% Ausimont #20
150F 70LBF 10150RPM #4

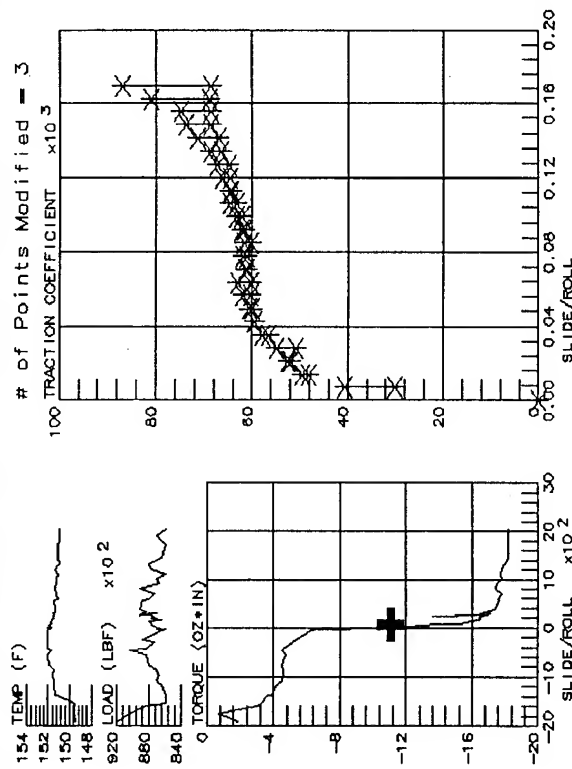


TRACTION DATA

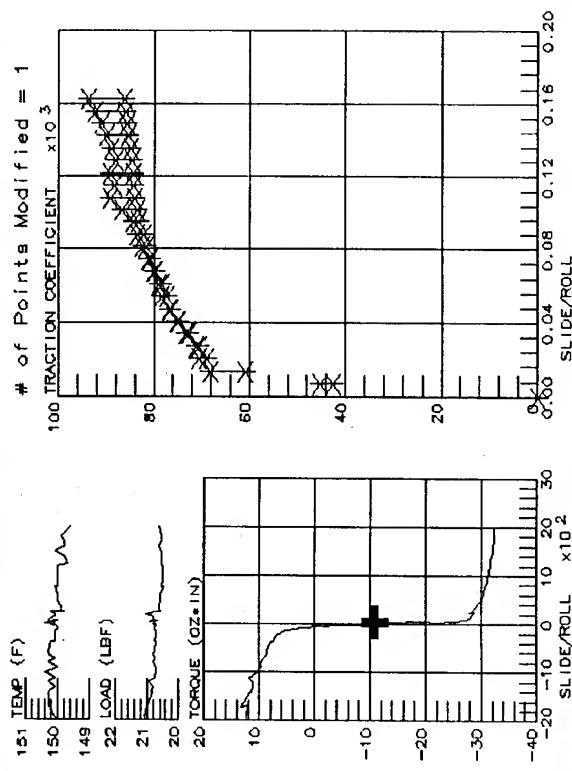
CF 92-162 Famblin Z-04 +0.5% Ausimont #21
150F 3LBF 636RPM #1



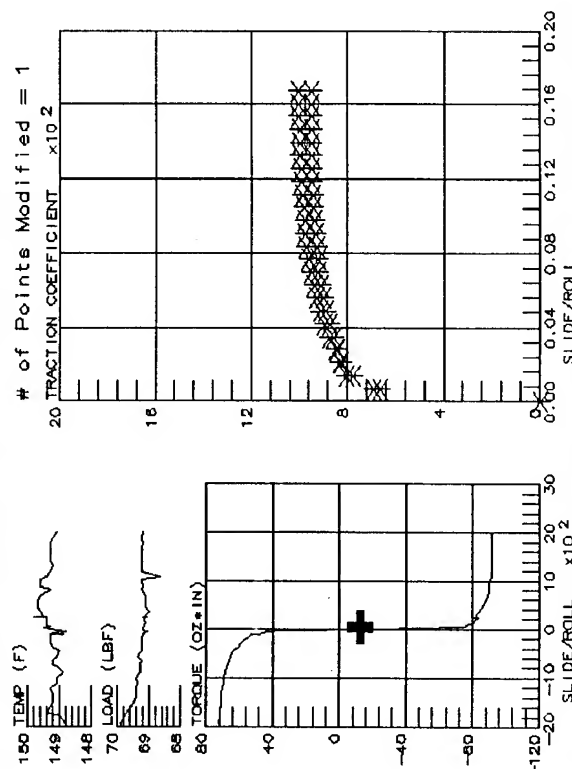
CF 92-162 Famblin Z-04 +0.5% Ausimont #22
150F 9LBF 636RPM #2



CF 92-162 Famblin Z-04 +0.5% Ausimont #23
150F 21LBF 636RPM #3

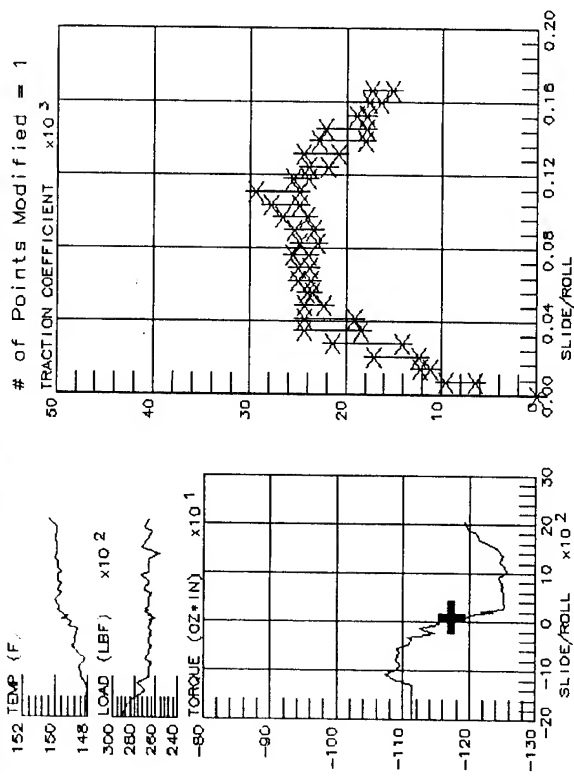


CF 92-162 Famblin Z-04 +0.5% Ausimont #24
150F 70LBF 636RPM #4

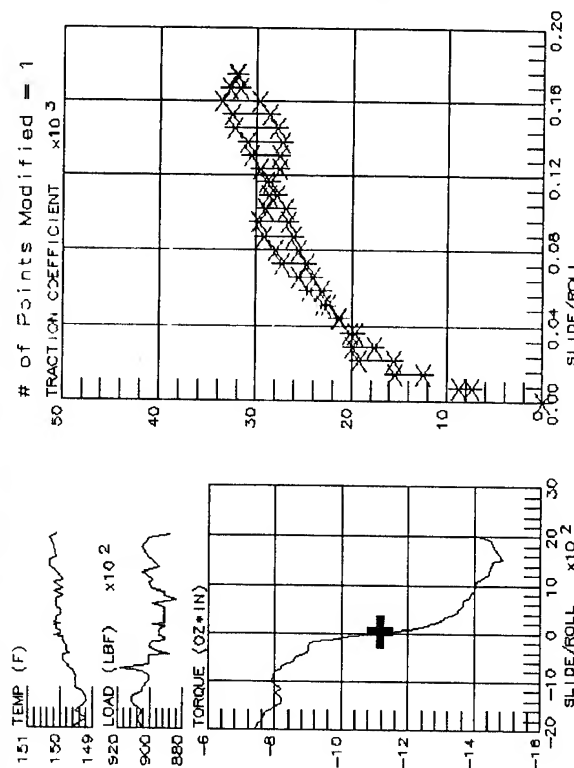


TRACTION DATA

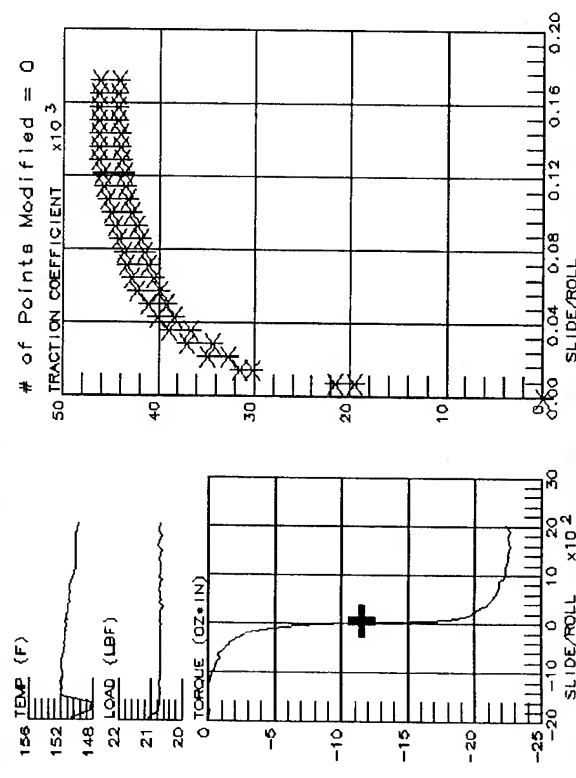
CF 92-162 Fomblin Z-04 +0.5% Ausimont #25
150F 3LBF 2550RPM #6 FILE: cf150m



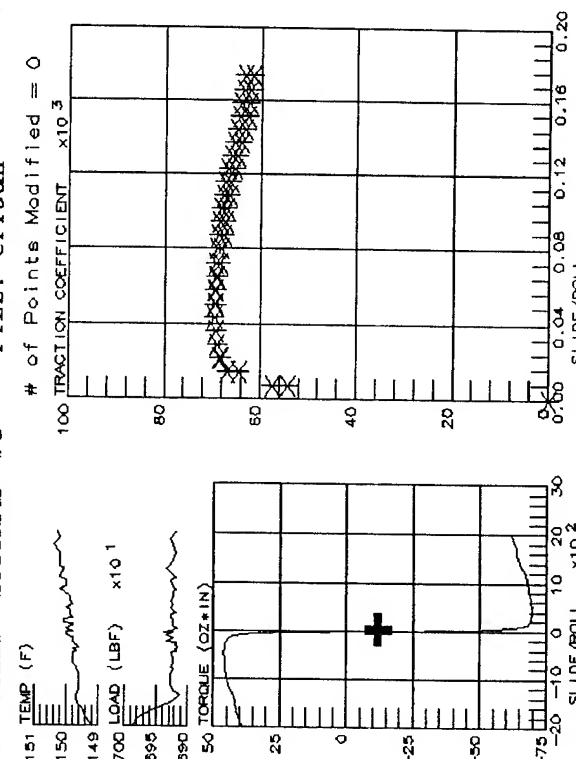
CF 92-162 Fomblin Z-04 +0.5% Ausimont #26
150F 9LBF 2550RPM #8 FILE: cf150m



CF 92-162 Fomblin Z-04 +0.5% Ausimont #27
150F 21LBF 2550RPM #7 FILE: cf150m

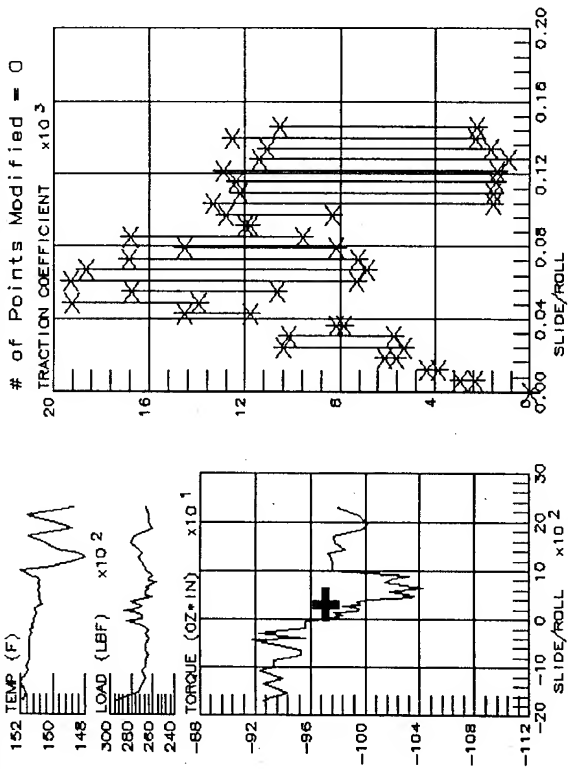


CF 92-162 Fomblin Z-04 +0.5% Ausimont #28
150F 70LBF 2550RPM #8 FILE: cf150m

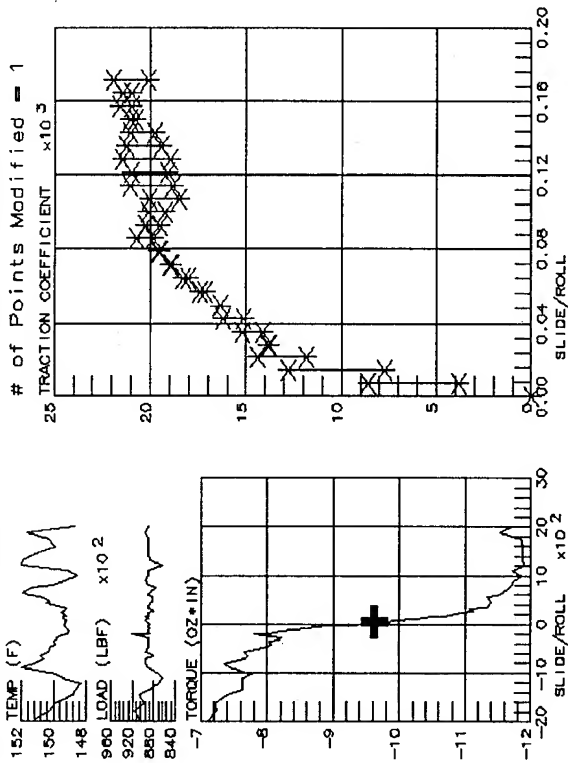


TRACTION DATA

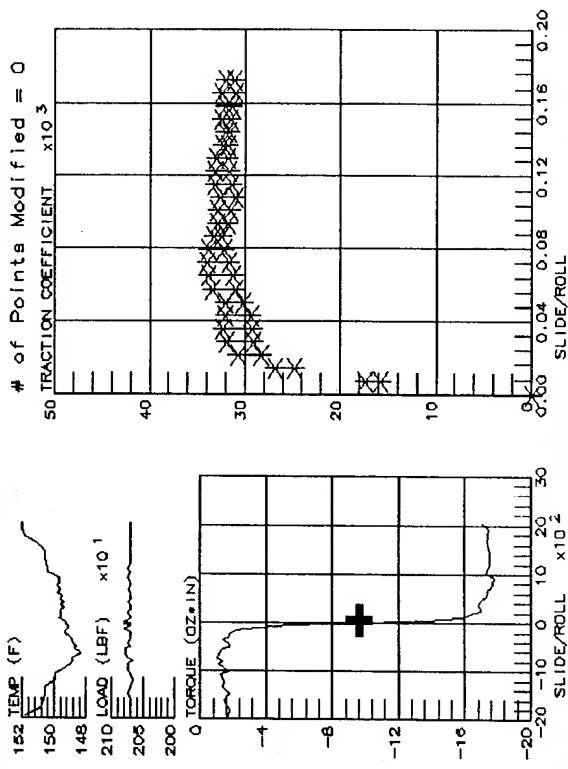
CF 92-162 Fomblin Z-04 +0.5% Ausimont #29
150F 3LBF 5100RPM #9 FILE: cf150m



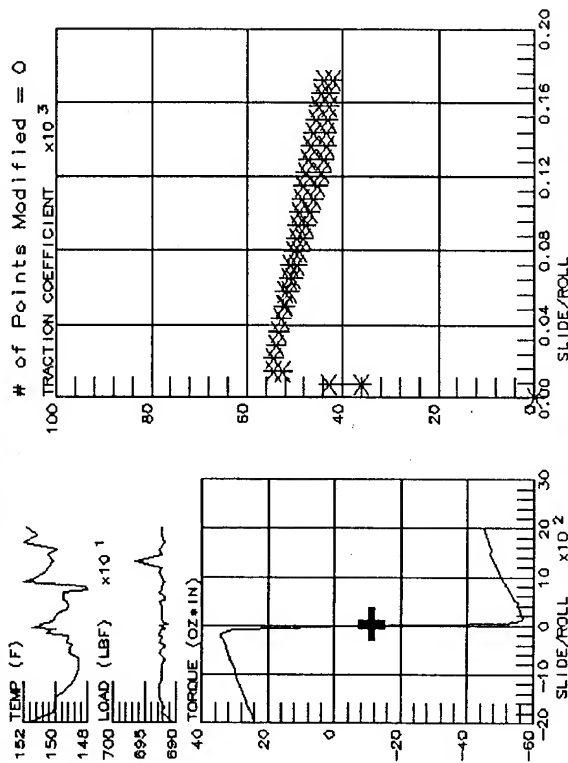
CF 92-162 Fomblin Z-04 +0.5% Ausimont #30
150F 9LBF 5100RPM #10 FILE: cf150m



CF 92-162 Fomblin Z-04 +0.5% Ausimont #31
150F 21LBF 5100RPM #11 FILE: cf150m

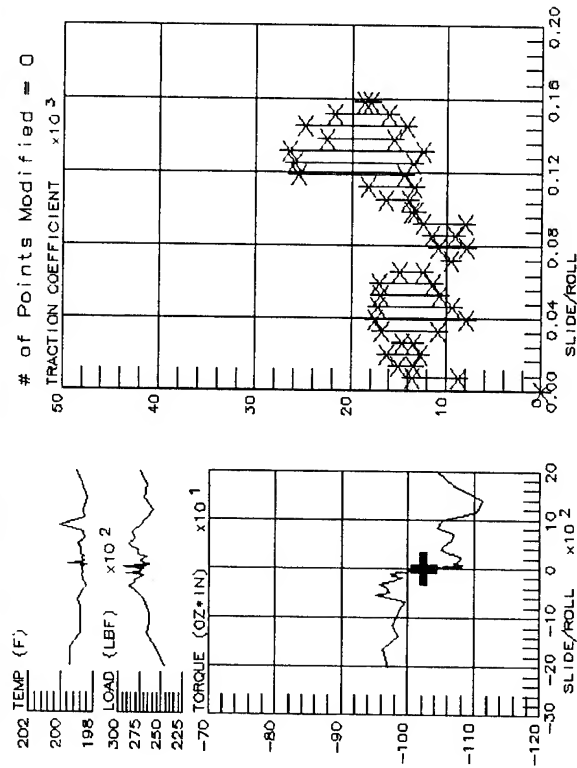


CF 92-162 Fomblin Z-04 +0.5% Ausimont #32
150F 70LBF 5100RPM #12 FILE: cf150m

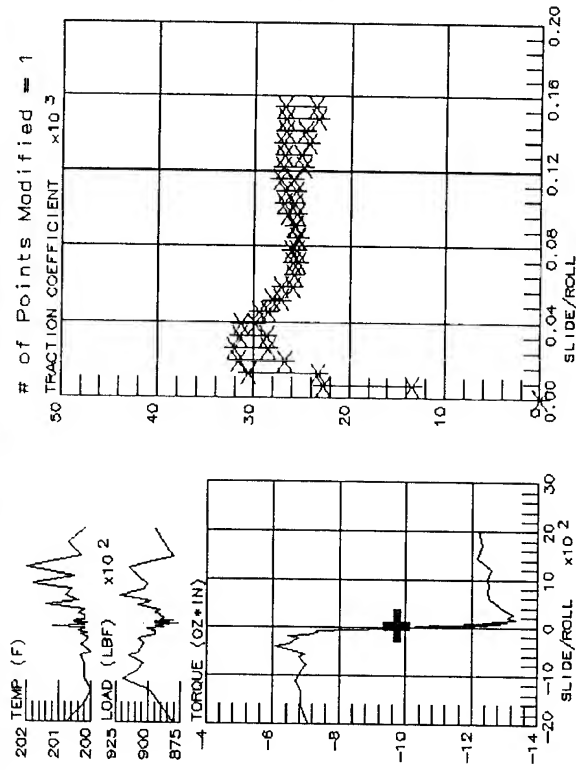


TRACTION DATA

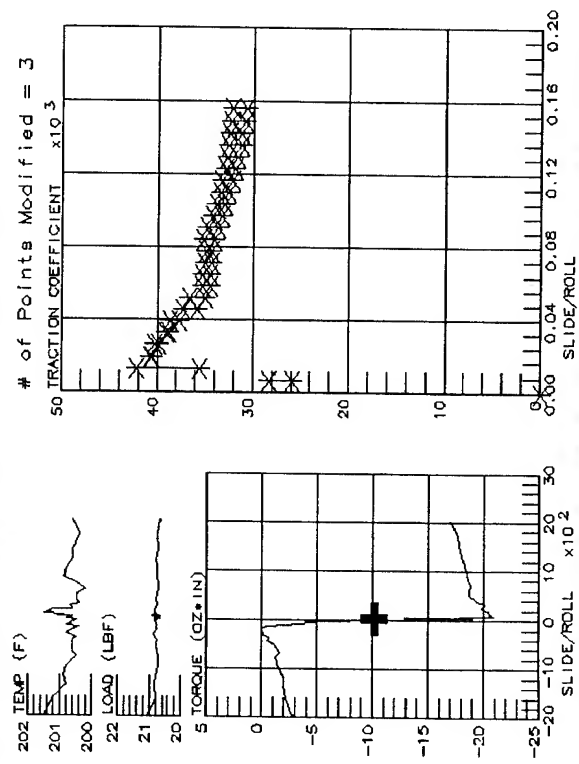
CF 92-162 Fomblin Z-04 +0.5% Ausimont #33
200F 3LBF 10150RPM #1 FILE: cf200h



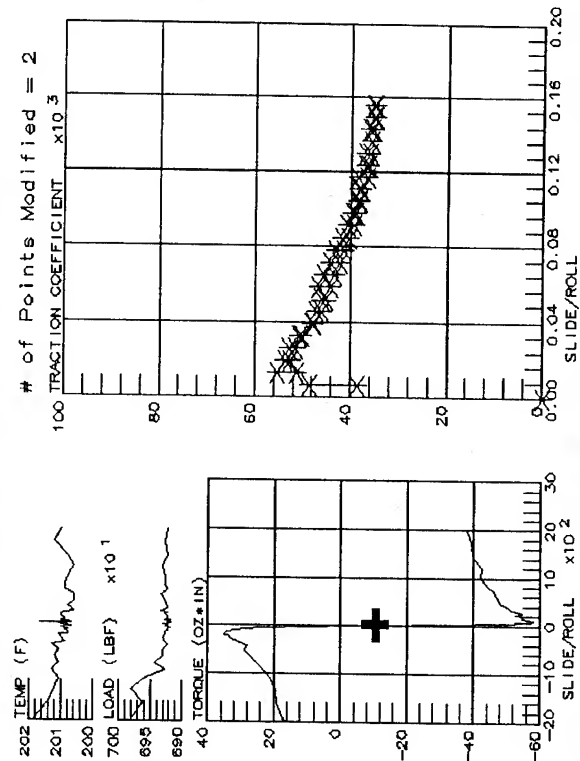
CF 92-162 Fomblin Z-04 +0.5% Ausimont #34
200F 9LBF 10150RPM #2 FILE: cf200h



CF 92-162 Fomblin Z-04 +0.5% Ausimont #35
200F 21LBF 10150RPM #3 FILE: cf200h

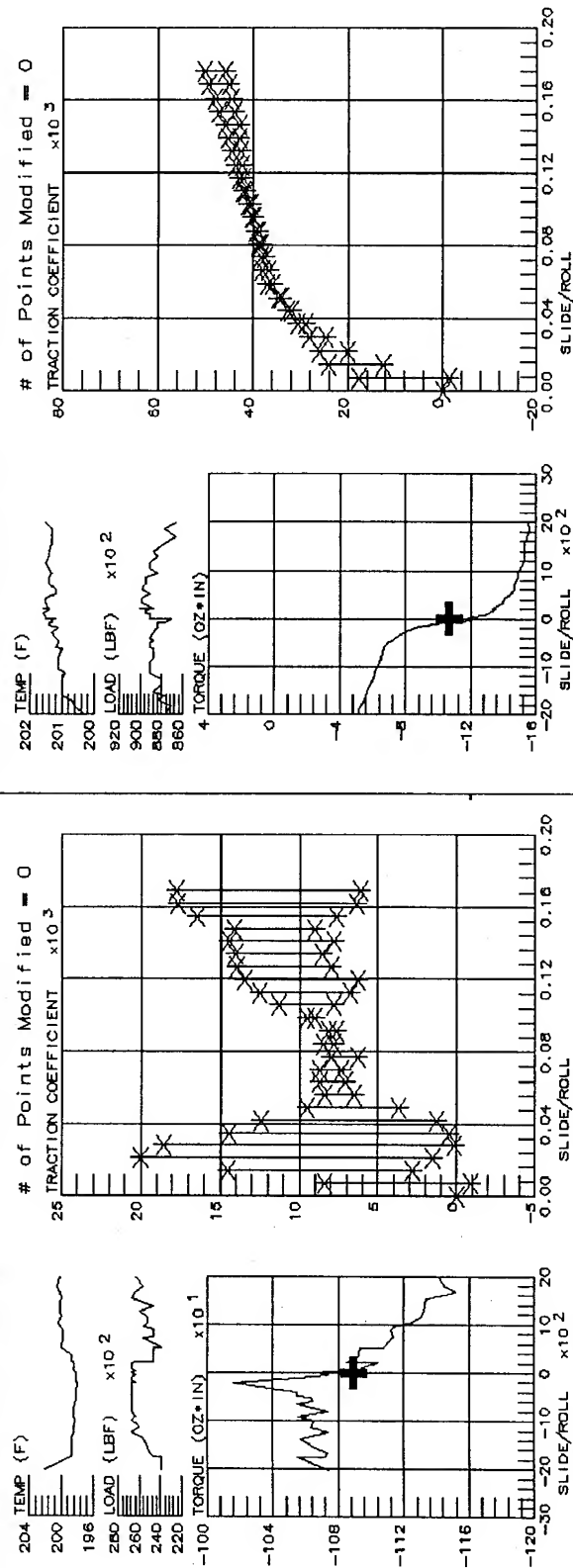


CF 92-162 Fomblin Z-04 +0.5% Ausimont #36
200F 70LBF 10150RPM #4 FILE: cf200h

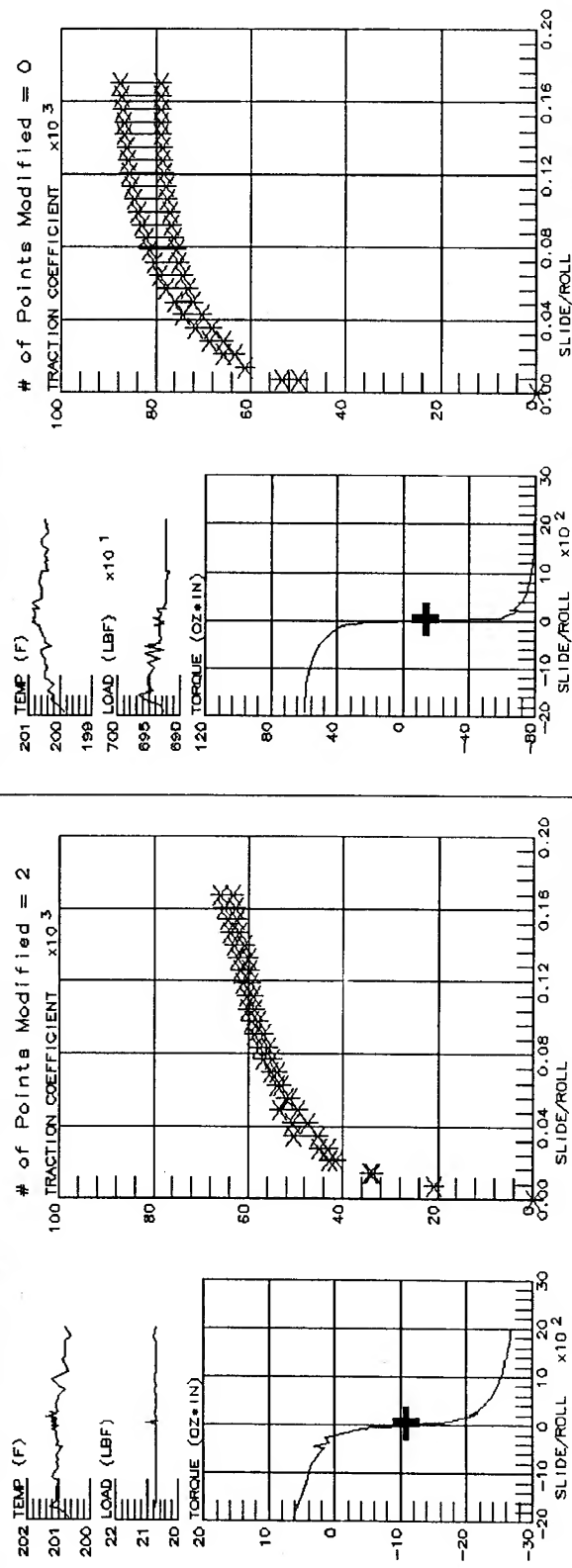


TRACTION DATA

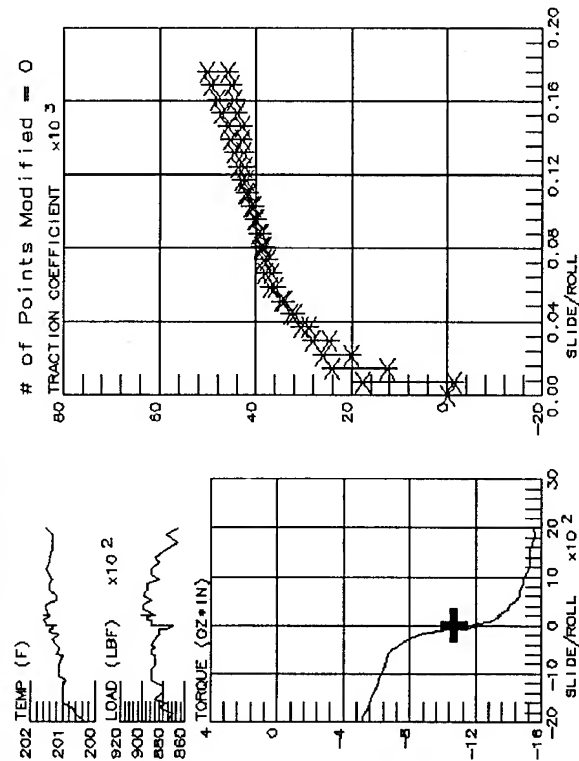
CF 92-162 Fomblin Z-04 +0.5% Ausimont #37
200F 3LBF 636RPM #1



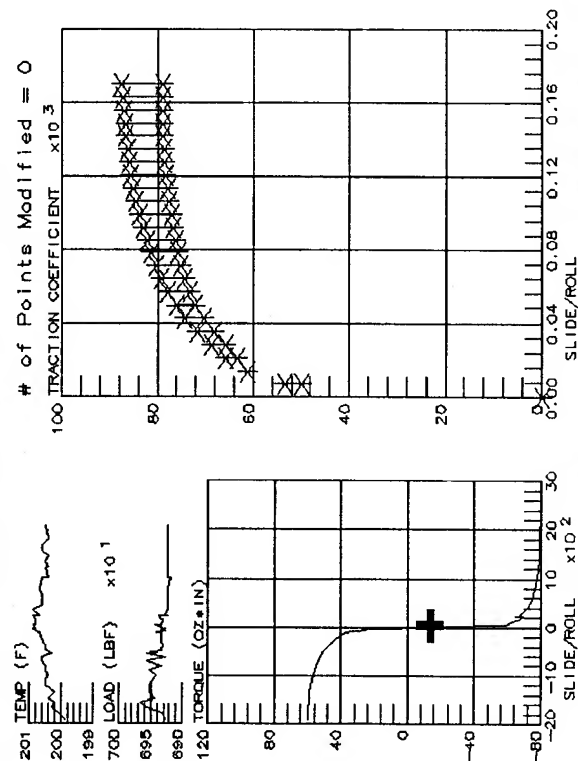
CF 92-162 Fomblin Z-04 +0.5% Ausimont #39
200F 21LBF 636RPM #3



CF 92-162 Fomblin Z-04 +0.5% Ausimont #38
200F 9LBF 636RPM #2

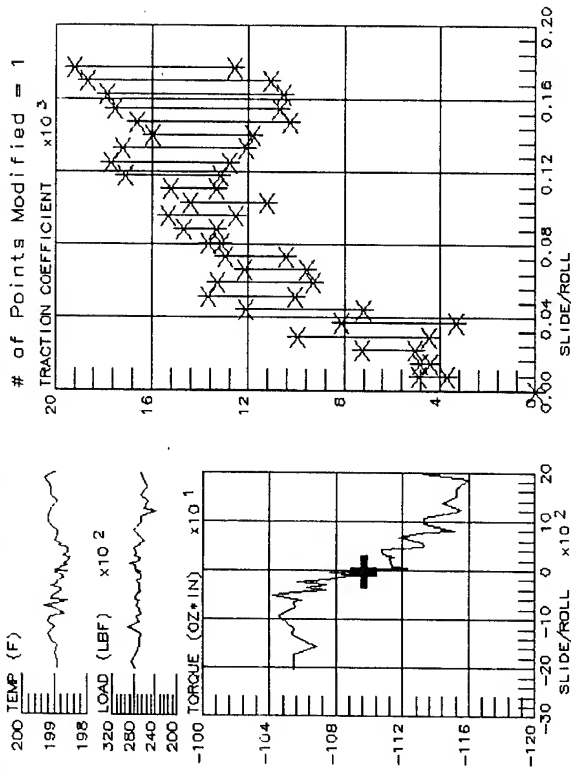


CF 92-162 Fomblin Z-04 +0.5% Ausimont #40
200F 70LBF 636RPM #4

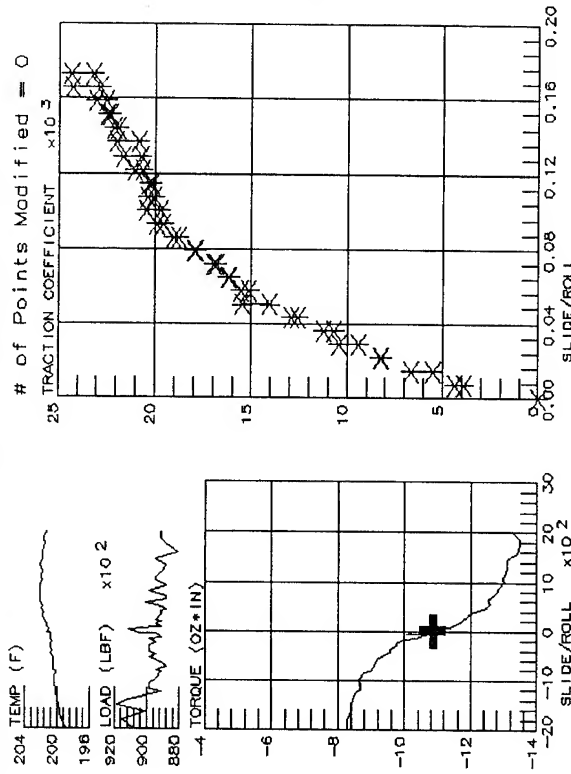


TRACTION DATA

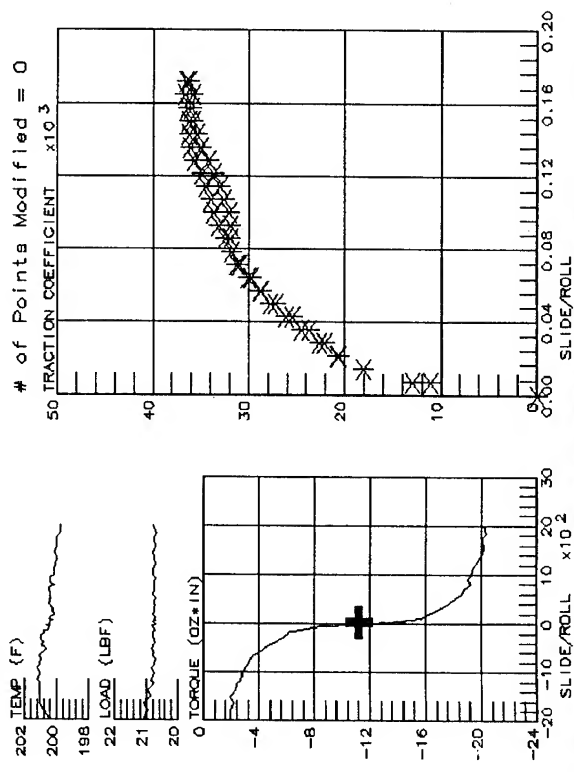
CF 92-162 Fomblin Z-04 +0.5% Ausimont #41
200F 3LBF 2550RPM #6



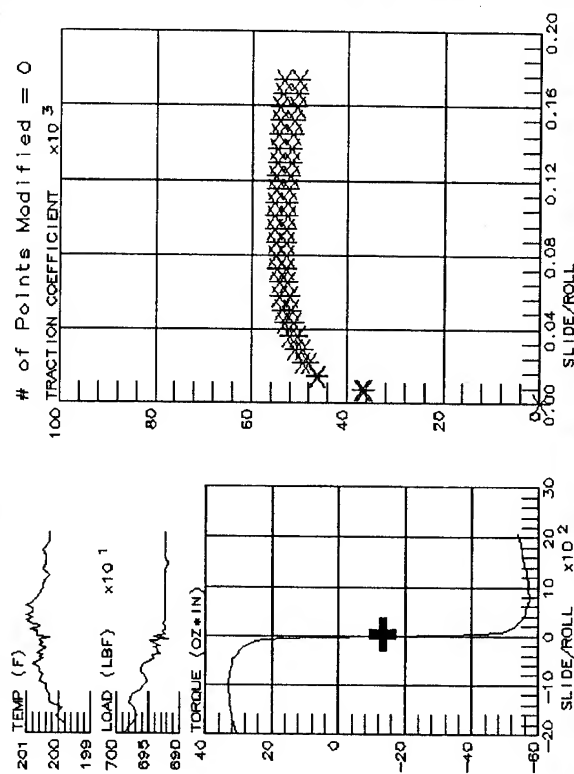
CF 92-162 Fomblin Z-04 +0.5% Ausimont #42
200F 9LBF 2550RPM #8



CF 92-162 Fomblin Z-04 +0.5% Ausimont #43
200F 21LBF 2550RPM #7

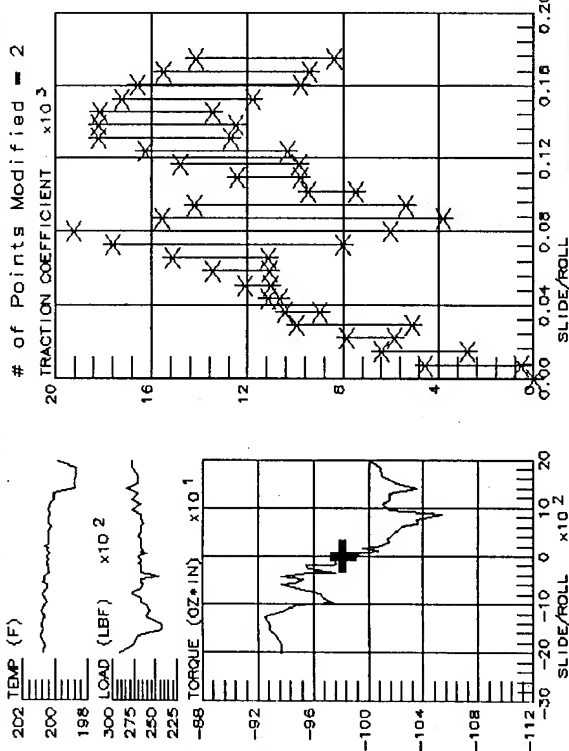


CF 92-162 Fomblin Z-04 +0.5% Ausimont #44
200F 70LBF 2550RPM #8

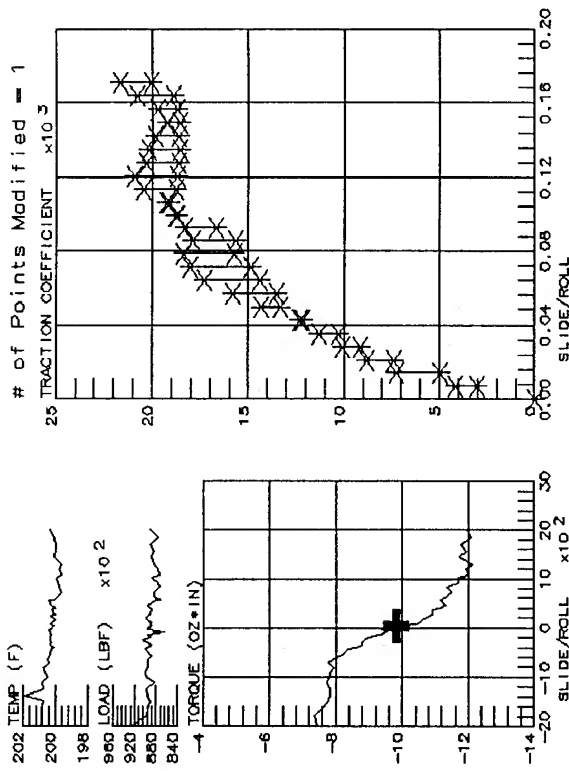


TRACTION DATA

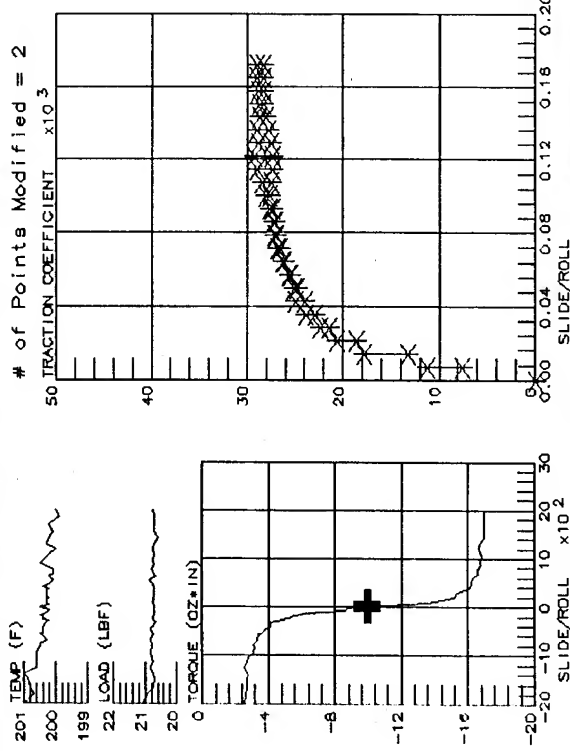
CF 92-162 Fomblin Z-04 +0.5% Ausimont #45
200F 3LBF 5100RPM #9



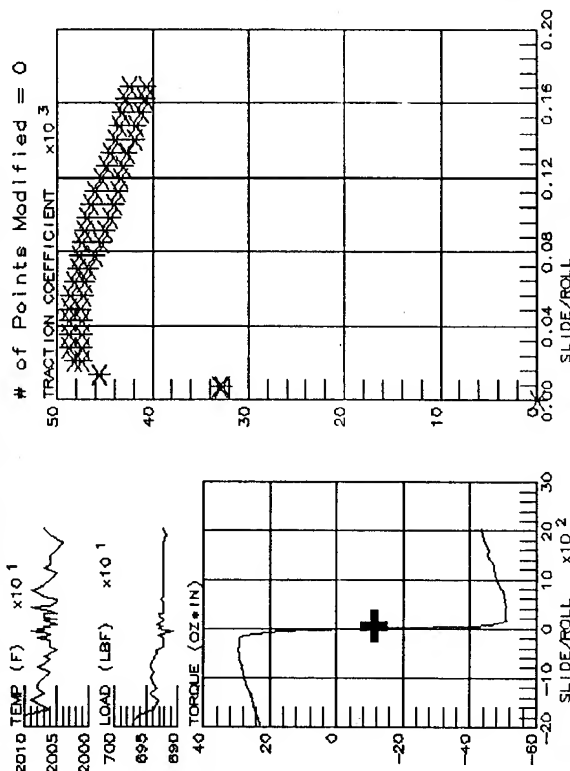
CF 92-162 Fomblin Z-04 +0.5% Ausimont #46
200F 9LBF 5100RPM #10



CF 92-162 Fomblin Z-04 +0.5% Ausimont #47
200F 21LBF 5100RPM #11

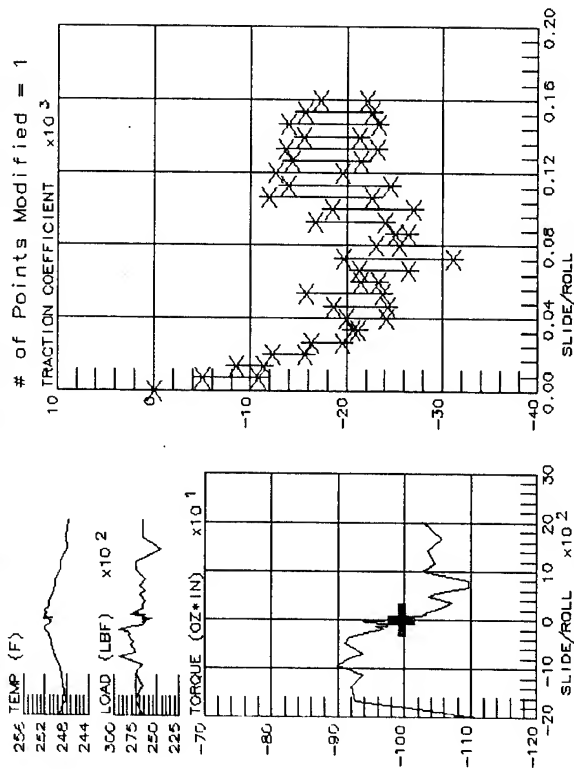


CF 92-162 Fomblin Z-04 +0.5% Ausimont #48
200F 70LBF 5100RPM #12

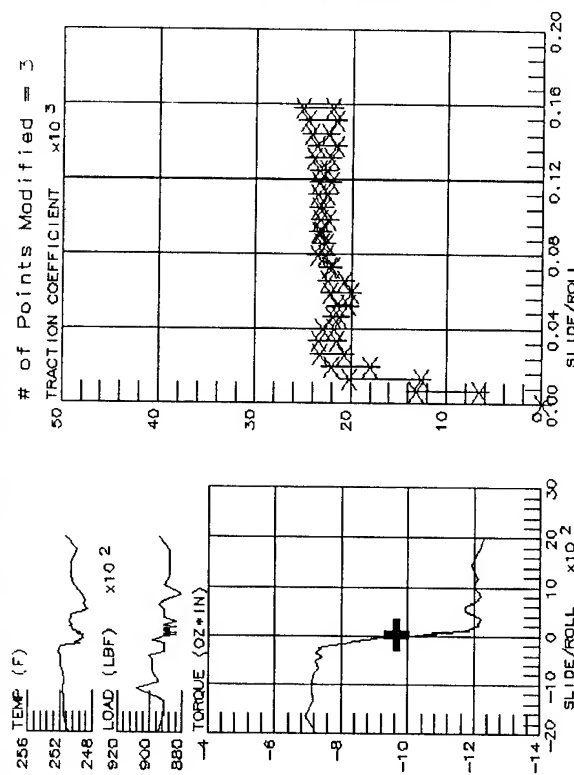


TRACTION DATA

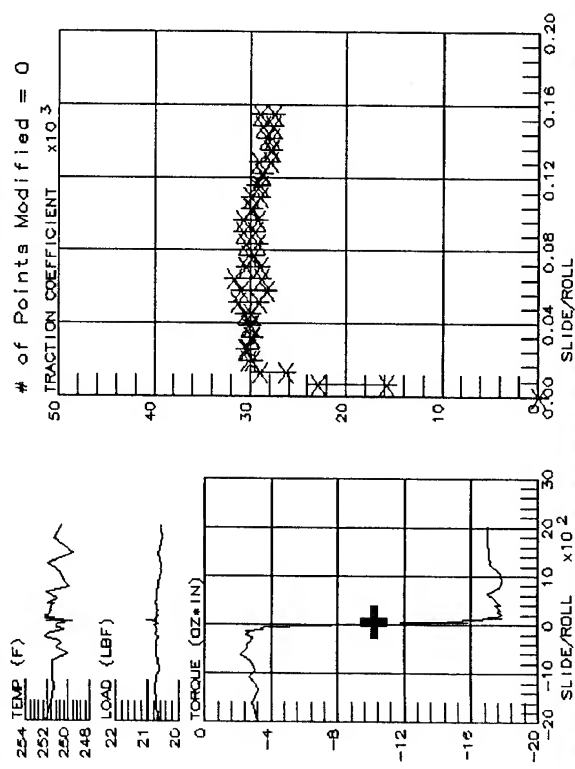
CF 92-162 Fomblin Z-04 +0.5% Ausimont #49
250F 3LBF 10150RPM #1 FILE: cf250h



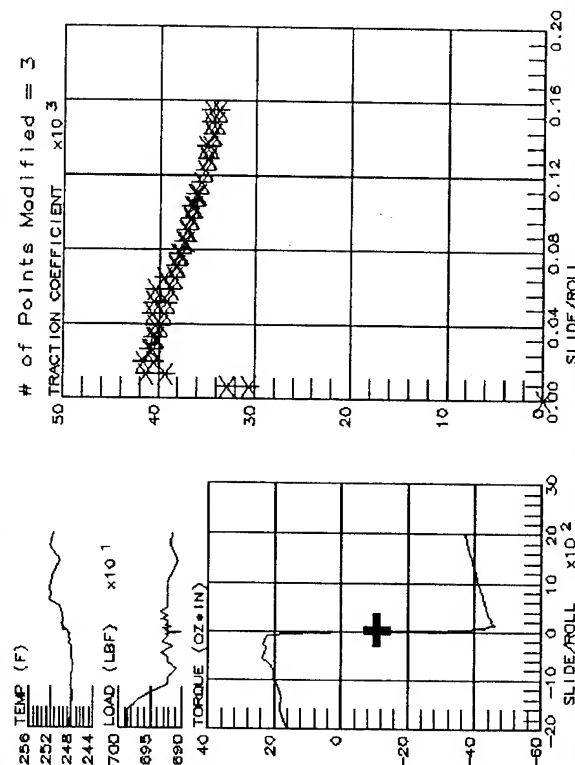
CF 92-162 Fomblin Z-04 +0.5% Ausimont #50
250F 9LBF 10150RPM #2 FILE: cf250h



CF 92-162 Fomblin Z-04 +0.5% Ausimont #51
250F 21LBF 10150RPM #3 FILE: cf250h

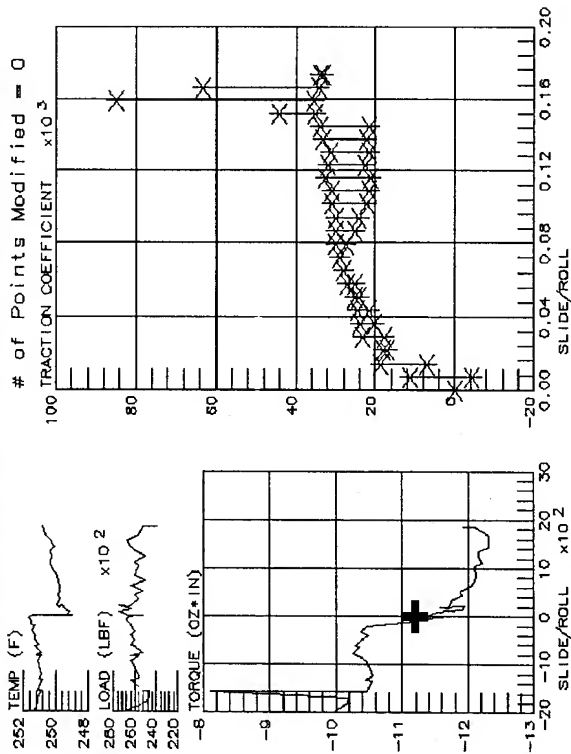


CF 92-162 Fomblin Z-04 +0.5% Ausimont #52
250F 70LBF 10150RPM #4 FILE: cf250h

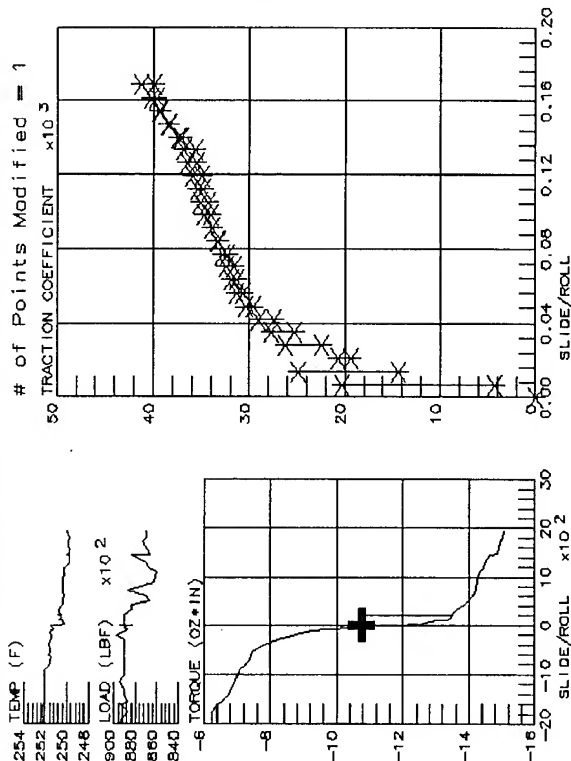


TRACTION DATA

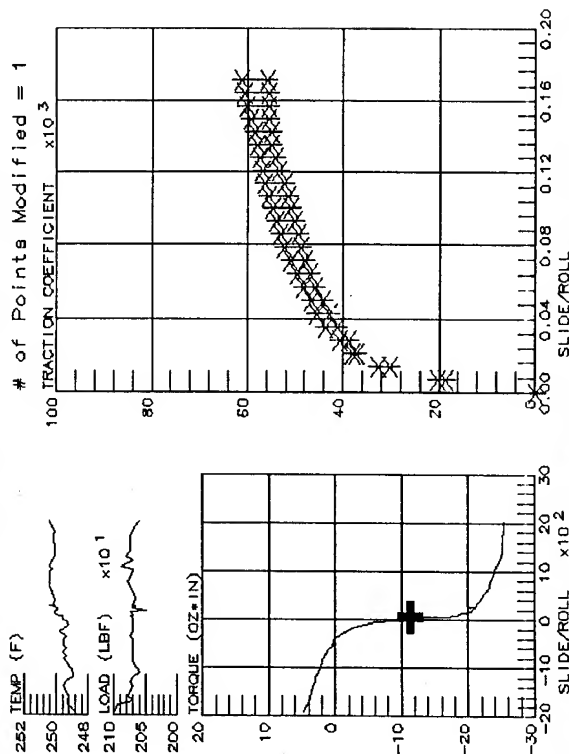
CF 92-162 Fomblin Z-04 +0.5% Ausimont #53
250F 3LBF 636RPM #1



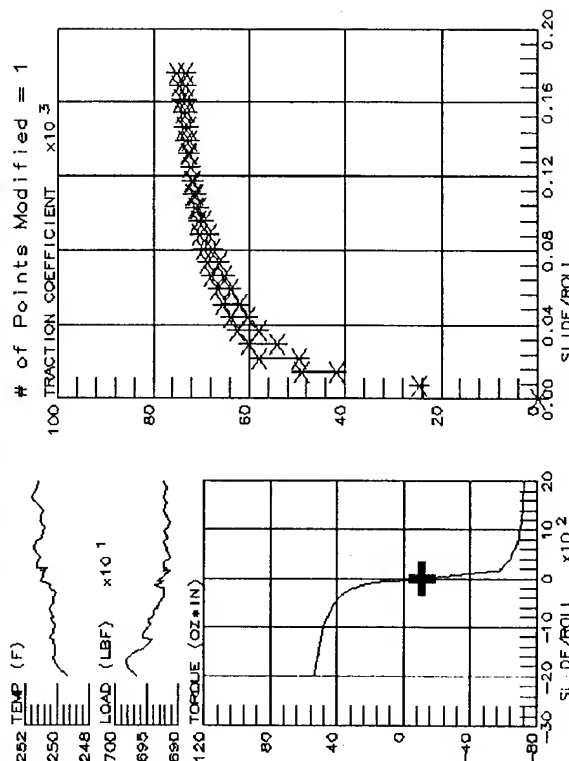
CF 92-162 Fomblin Z-04 +0.5% Ausimont #54
250F 9LBF 636RPM #2



CF 92-162 Fomblin Z-04 +0.5% Ausimont #55
250F 21LBF 636RPM #3

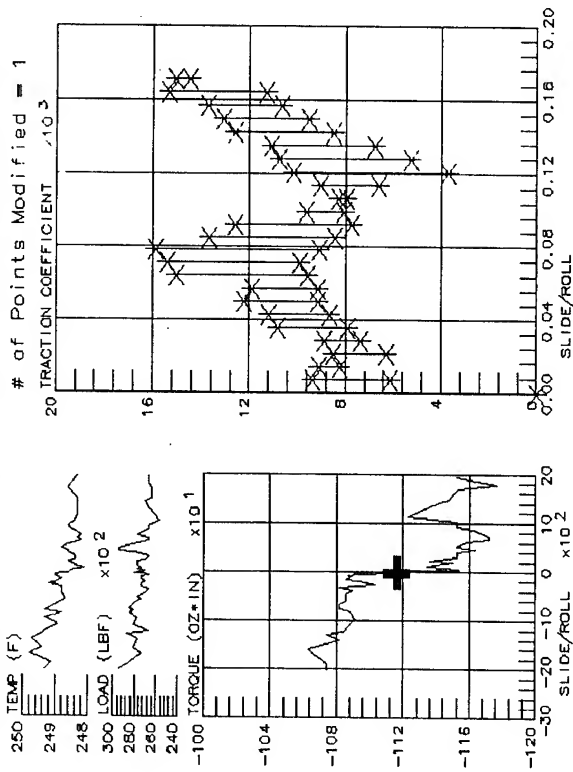


CF 92-162 Fomblin Z-04 +0.5% Ausimont #56
250F 70LBF 636RPM #4

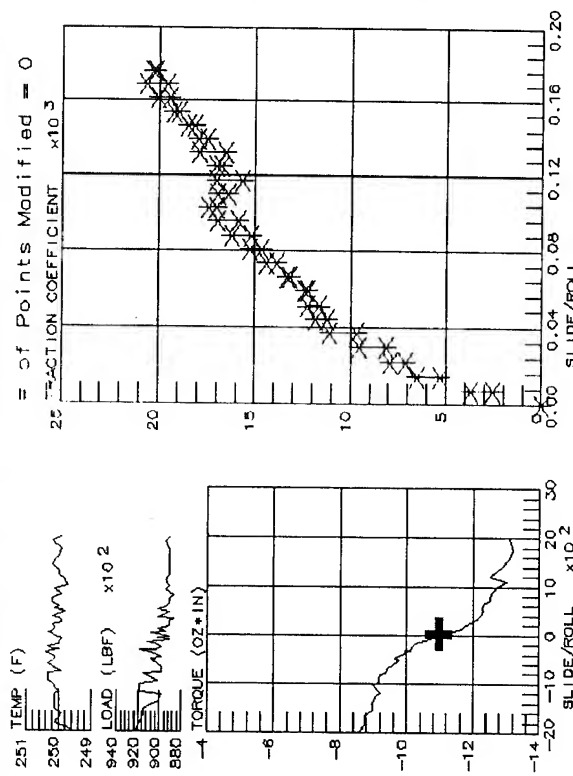


TRACTION DATA

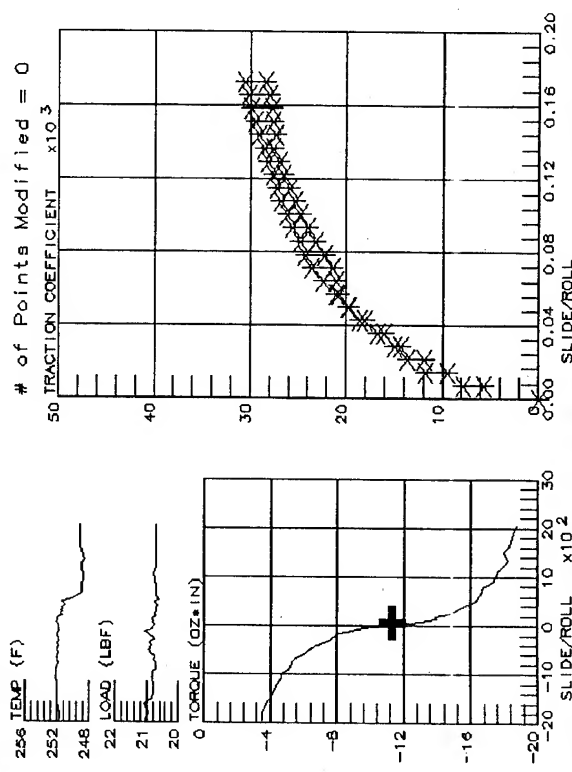
CF 92-162 Foxblin Z-04 +0.5% Ausimont #57
250F 3LBF 2550RPM #6



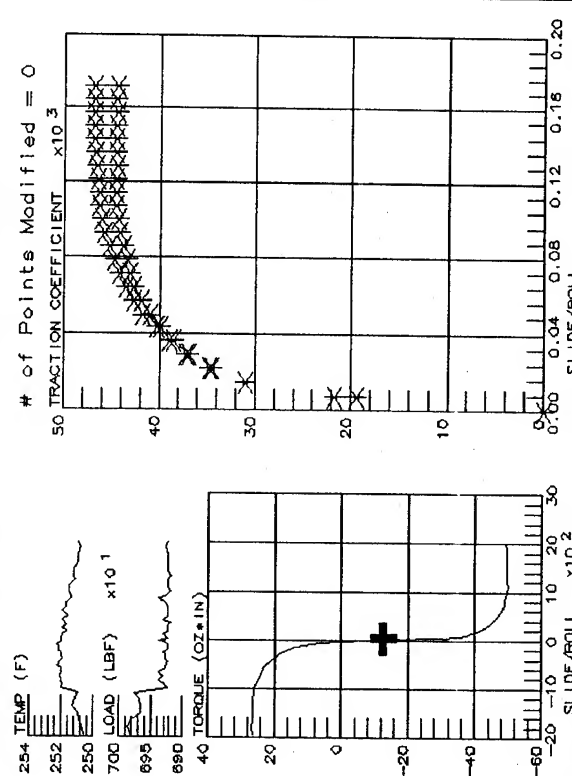
CF 92-162 Foxblin Z-04 +0.5% Ausimont #58
250F 9LBF 2550RPM #6



CF 92-162 Foxblin Z-04 +0.5% Ausimont #59
250F 21LBF 2550RPM #7

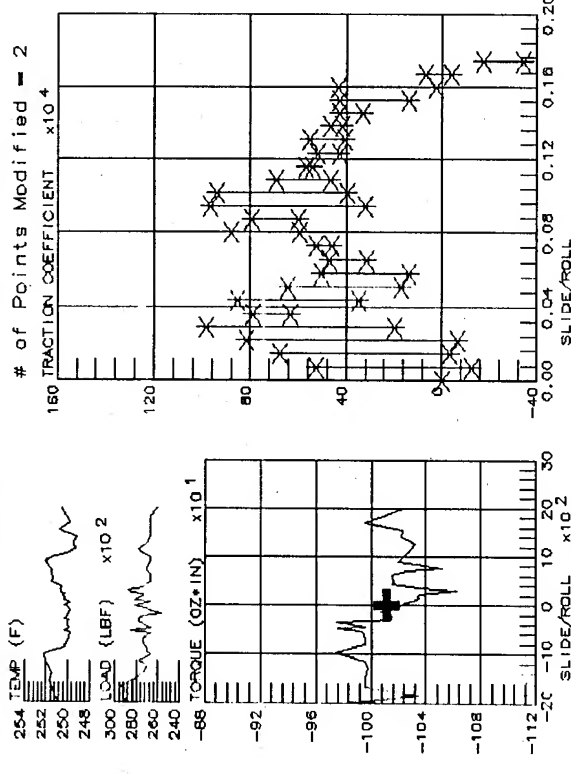


CF 92-162 Foxblin Z-04 +0.5% Ausimont #60
250F 70LBF 2550RPM #6

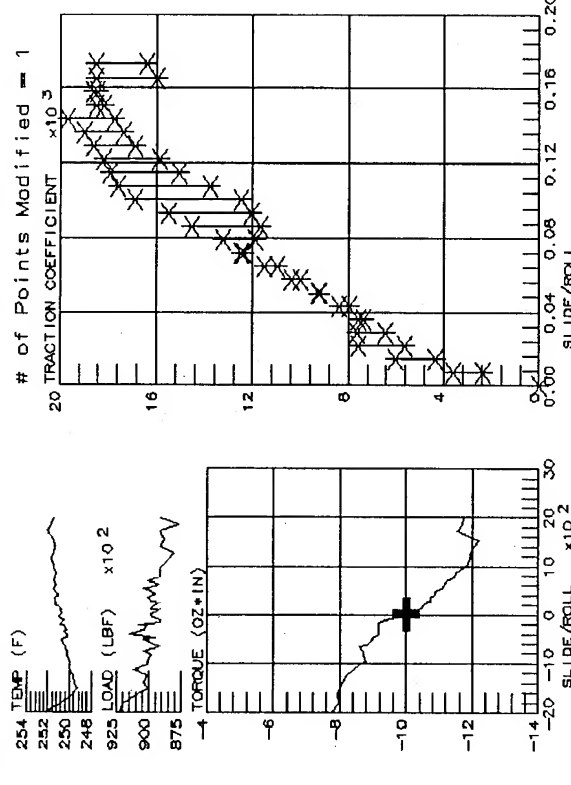


TRACTION DATA

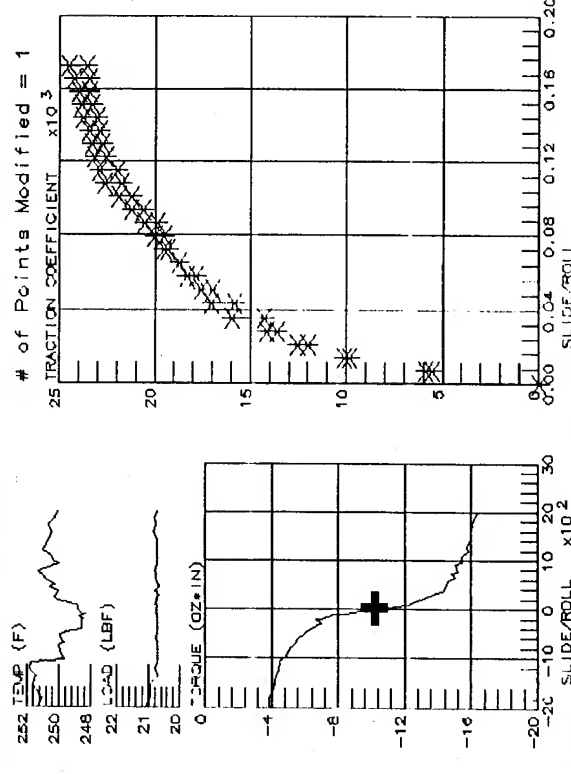
CF 92-162 Famblin Z-04 +0.5% Ausimont #61
250F 3LBF 5100RPM #9



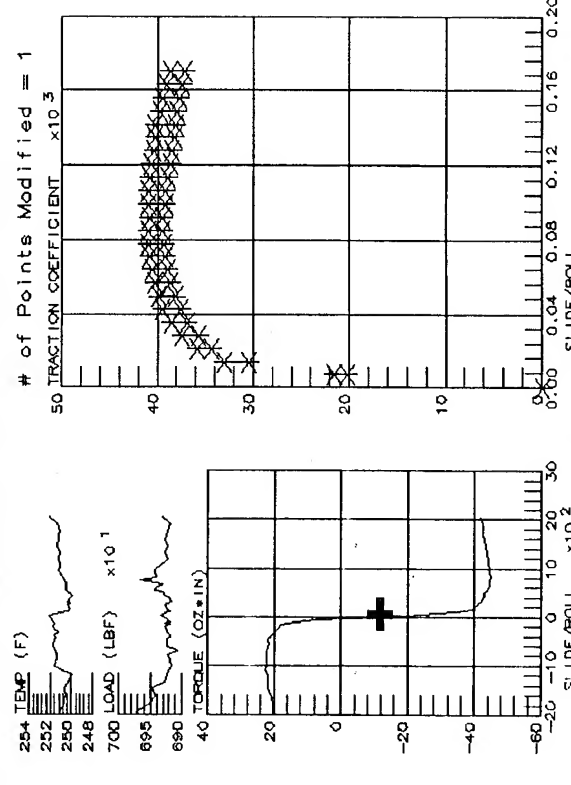
CF 92-162 Famblin Z-04 +0.5% Ausimont #62
250F 9LBF 5100RPM #10



CF 92-162 Famblin Z-04 +0.5% Ausimont #63
250F 21LBF 5100RPM #11

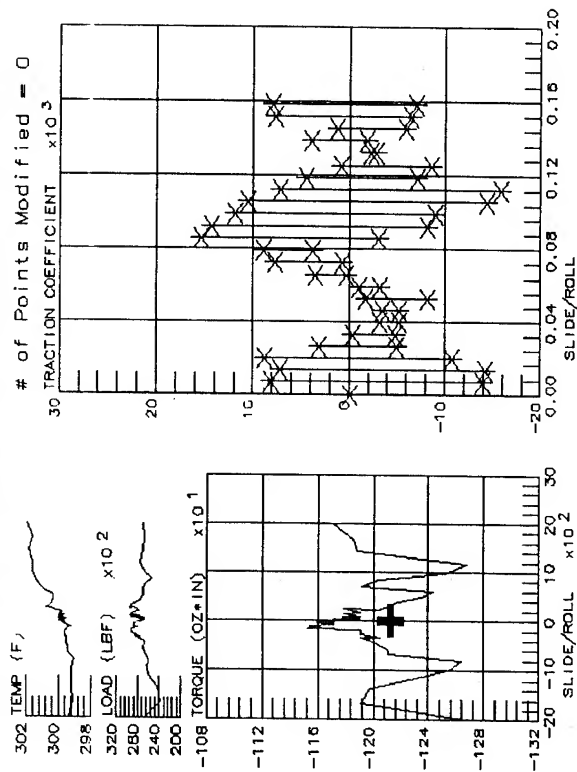


CF 92-162 Famblin Z-04 +0.5% Ausimont #64
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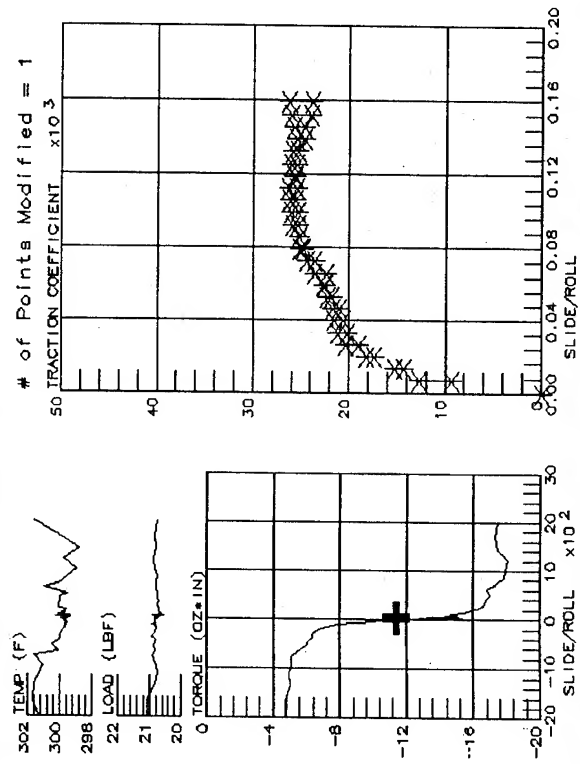


TRACTION DATA

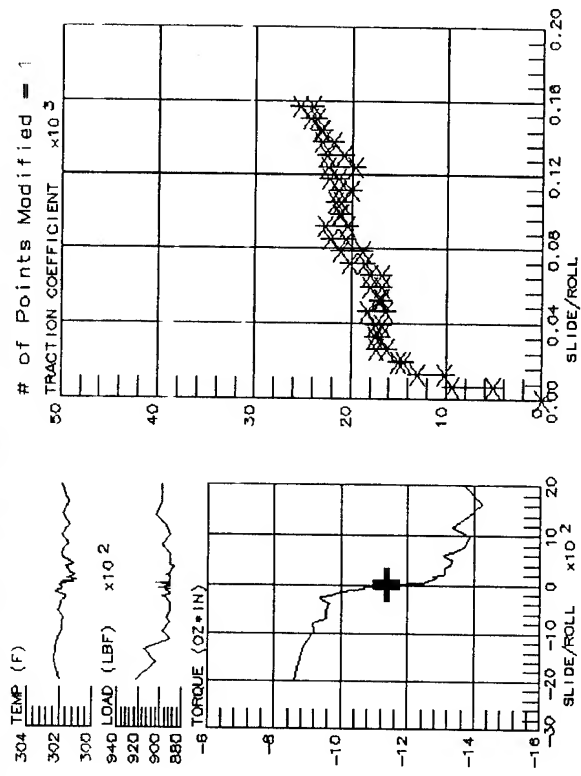
CF 92-162 Foxblin Z-04 +0.5% Ausimont #65
300F 3LBF 10150RPM #1 FILE: cf300h



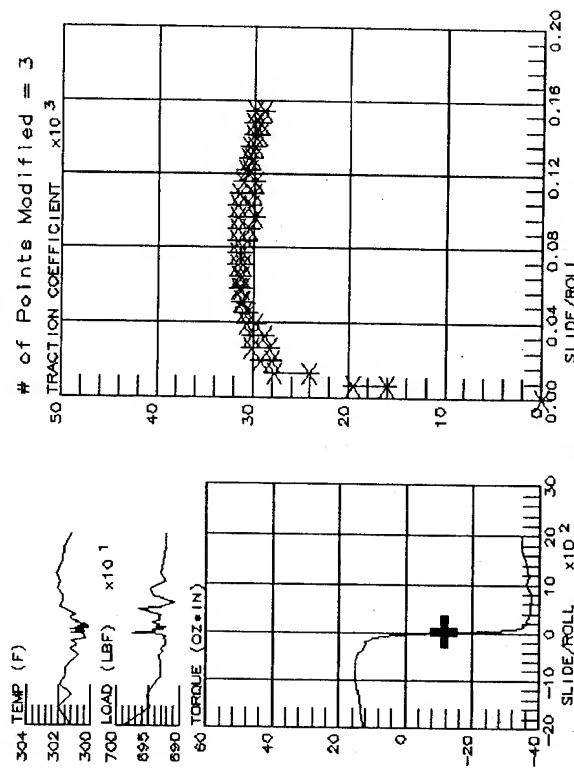
CF 92-162 Foxblin Z-04 +0.5% Ausimont #67
300F 21LBF 10150RPM #3 FILE: cf300h



CF 92-162 Foxblin Z-04 +0.5% Ausimont #88
300F 9LBF 10150RPM #2 FILE: cf300h

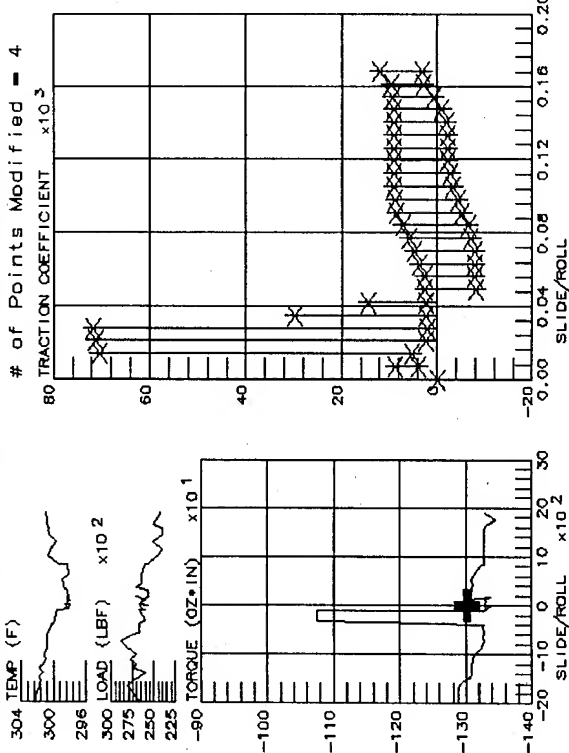


CF 92-162 Foxblin Z-04 +0.5% Ausimont #88
300F 70LBF 10150RPM #4 FILE: cf300h

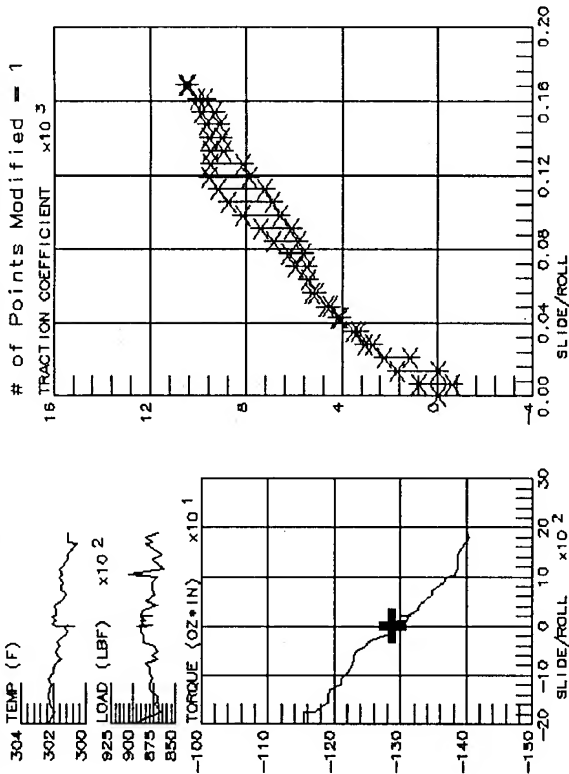


TRACTION DATA

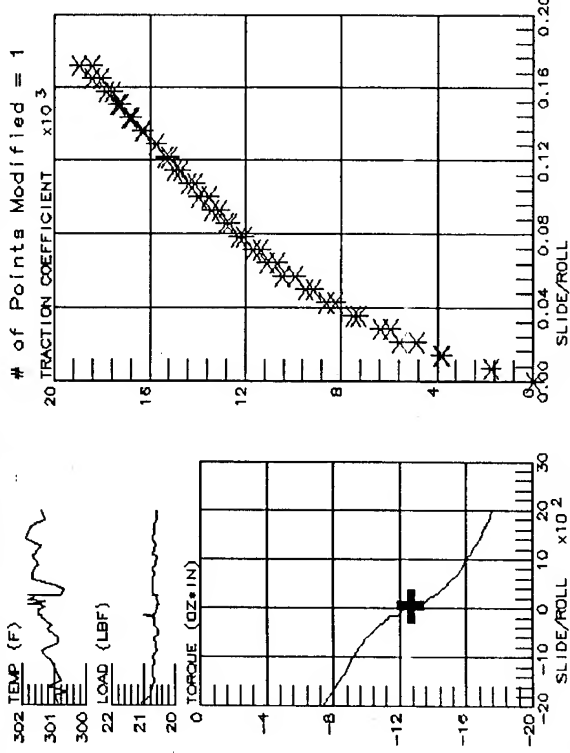
CF 92-162 Fomblin Z-04 +0.5% Ausimont #69
300F 3LBF 636RPM #1



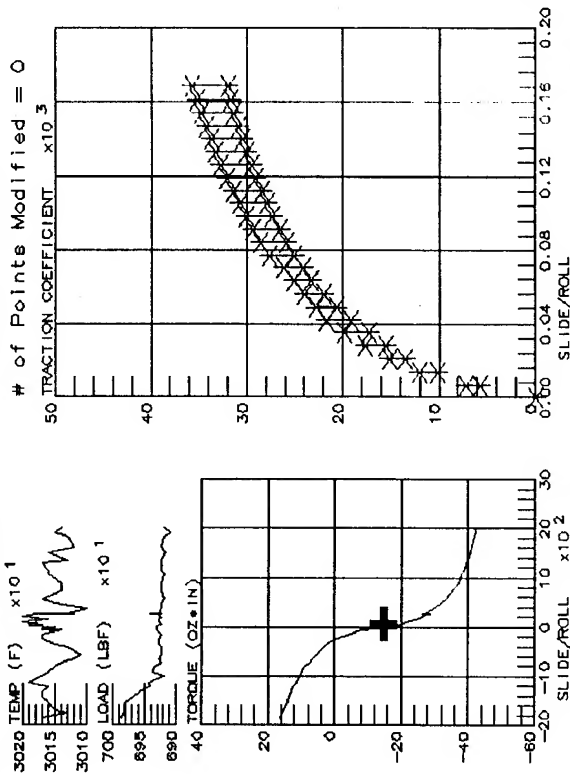
CF 92-162 Fomblin Z-04 +0.5% Ausimont #70
300F 9LBF 636RPM #2



CF 92-162 Fomblin Z-04 +0.5% Ausimont #71
300F 21LBF 636RPM #3



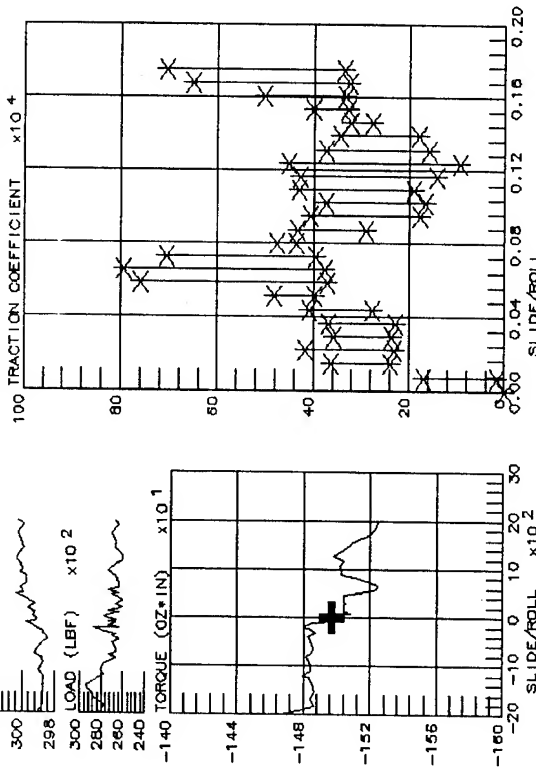
CF 92-162 Fomblin Z-04 +0.5% Ausimont #72
300F 70LBF 636RPM #4



TRACTION DATA

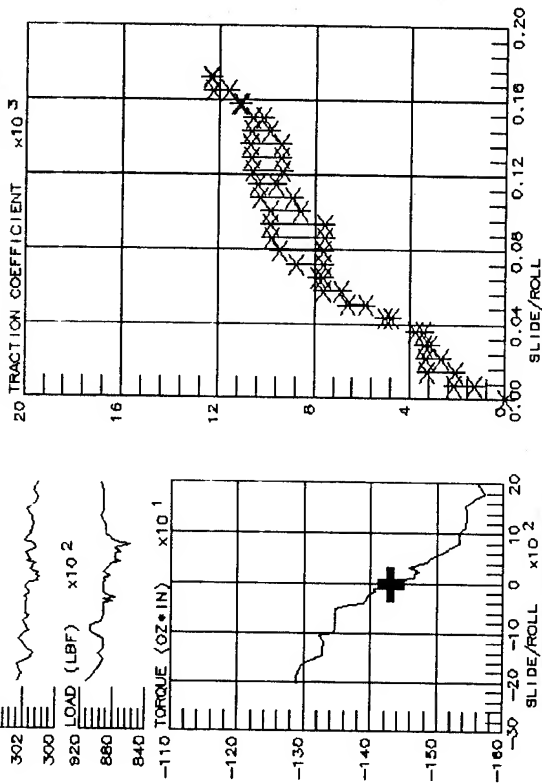
CF 92-162 Fomblin Z-04 +0.5% Ausimont #73
300F 3LBF 2550RPM #6

of Points Modified = 4



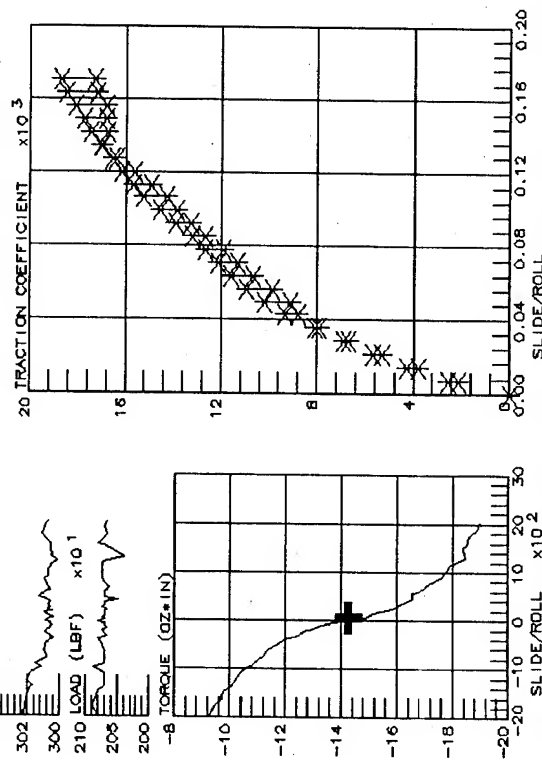
CF 92-162 Fomblin Z-04 +0.5% Ausimont #74
300F 9LBF 2550RPM #8

of Points Modified = 3



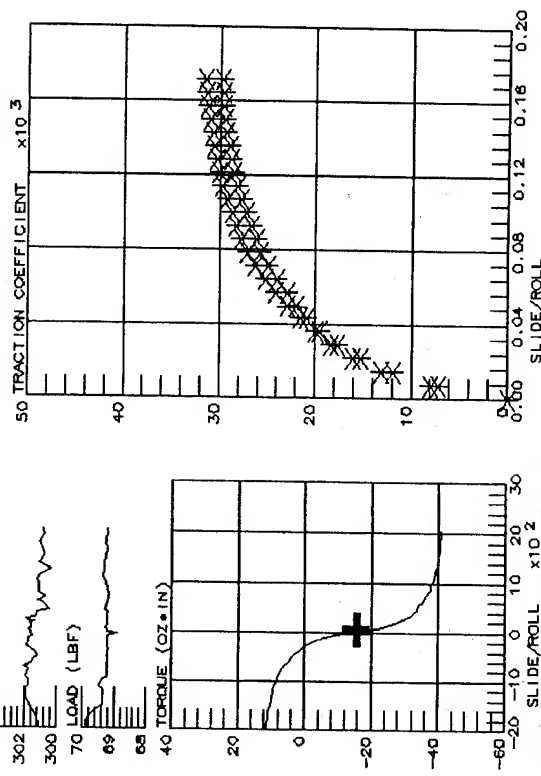
CF 92-162 Fomblin Z-04 +0.5% Ausimont #75
300F 21LBF 2550RPM #7

of Points Modified = 1



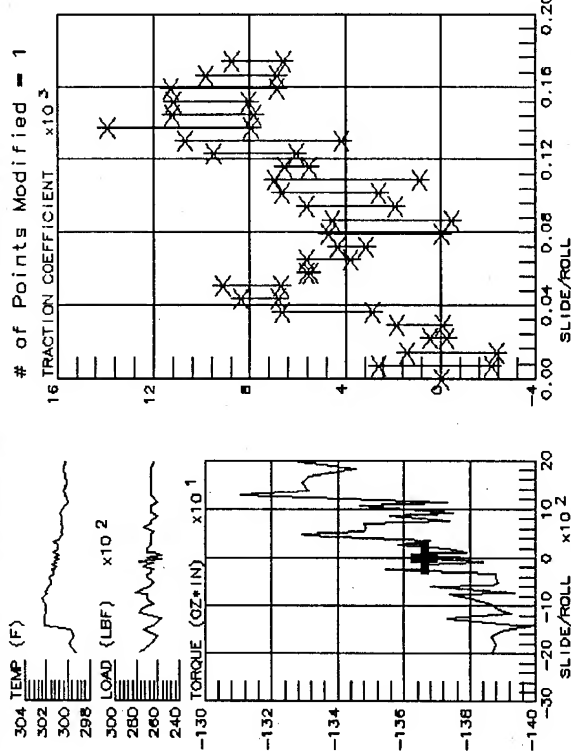
CF 92-162 Fomblin Z-04 +0.5% Ausimont #76
300F 70LBF 2550RPM #8

of Points Modified = 1

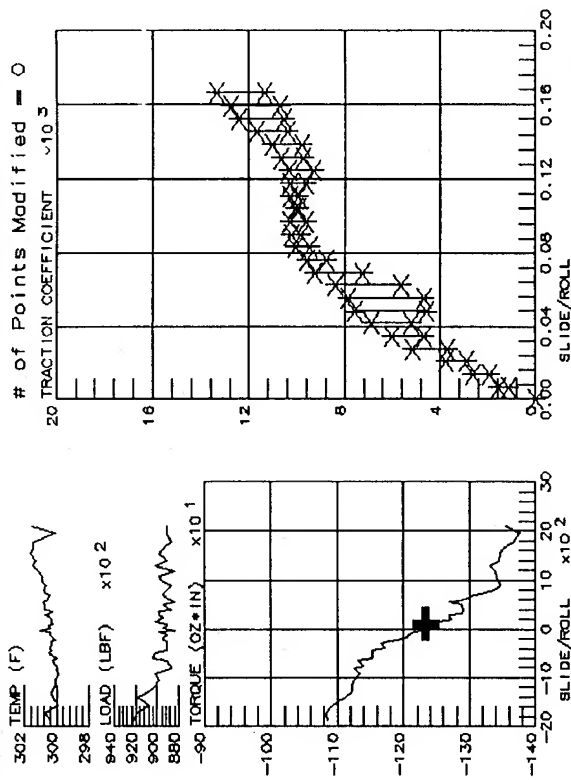


TRACTION DATA

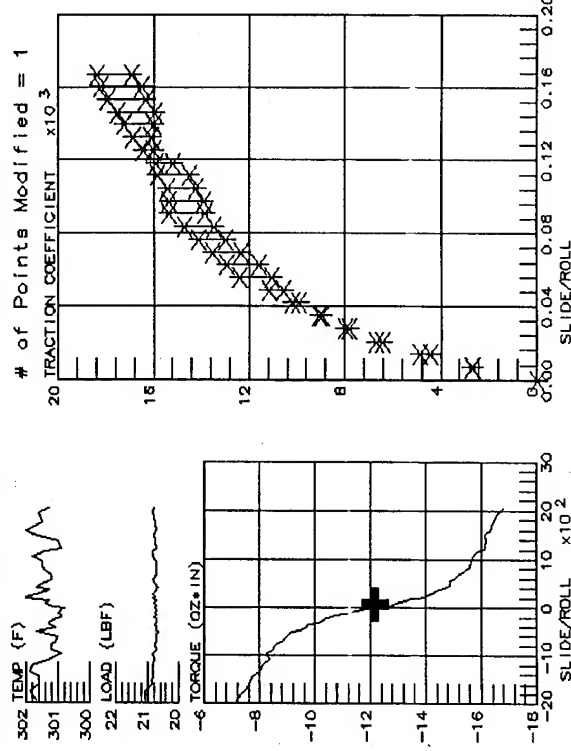
CF 92-162 Fomblin Z-04 +0.5% Ausimont #77
300F 3LBF 5100RPM #9 FILE: cf300m



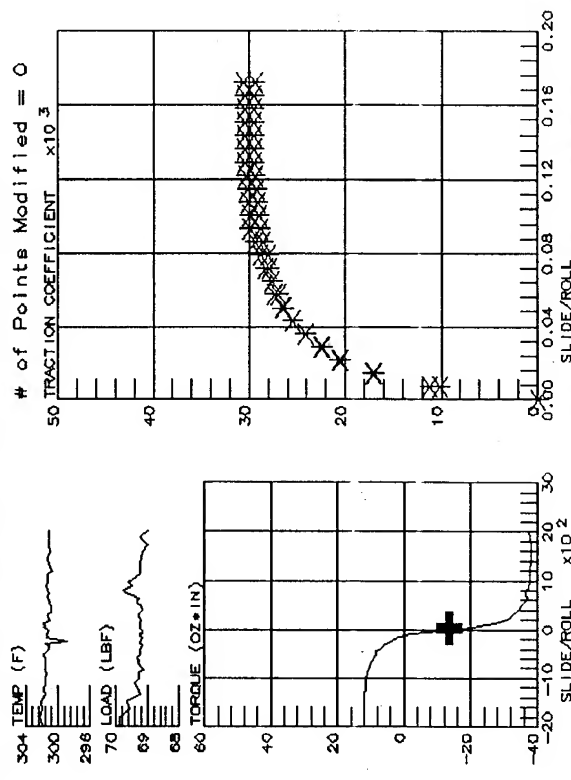
CF 92-162 Fomblin Z-04 +0.5% Ausimont #78
300F 9LBF 5100RPM #10 FILE: cf300m



CF 92-162 Fomblin Z-04 +0.5% Ausimont #79
300F 21LBF 5100RPM #11 FILE: cf300m

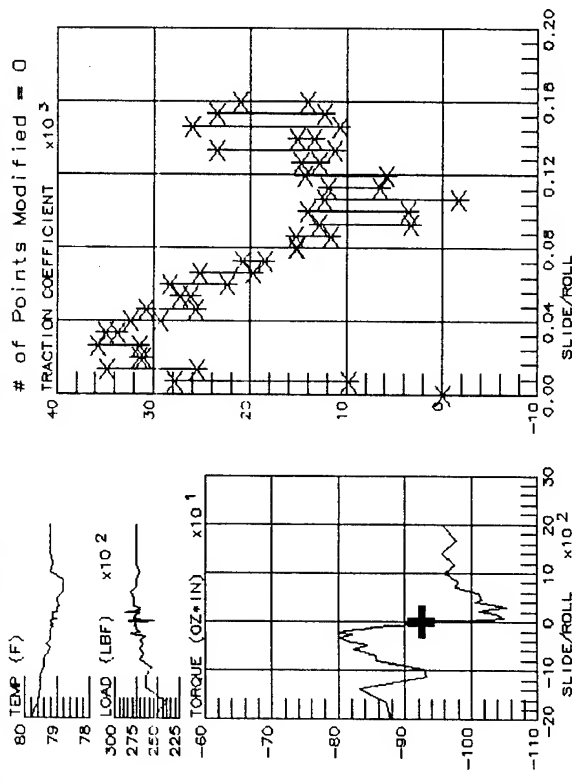


CF 92-162 Fomblin Z-04 +0.5% Ausimont #80
300F 70LBF 5100RPM #12 FILE: cf300m

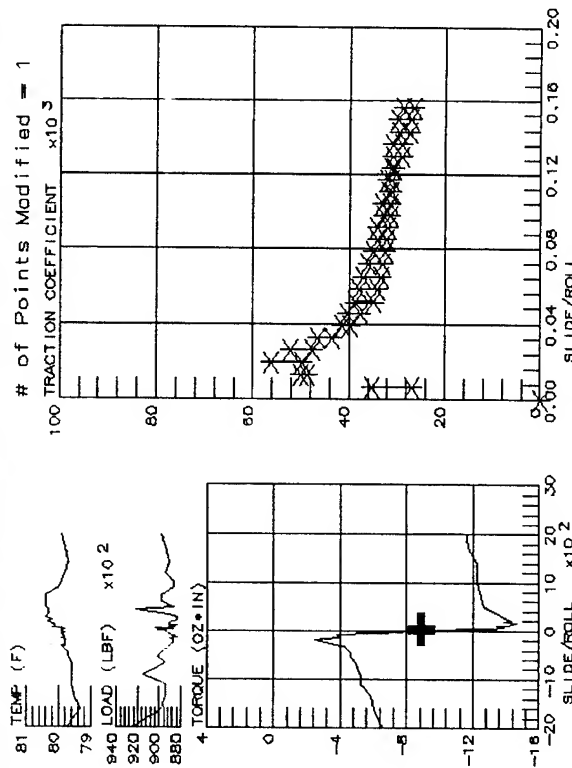


TRACTION DATA

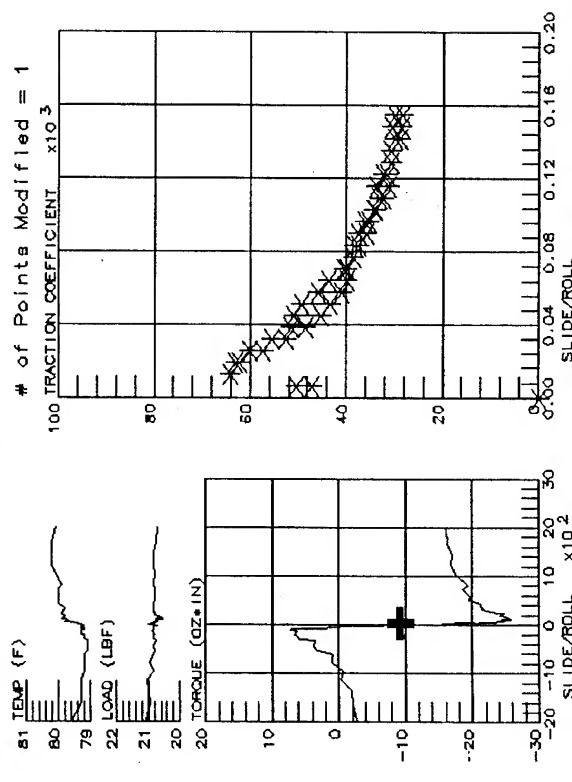
CF 92-162 Famblin Z-04 +0.5% Ausimont #81
80F 3LBF 10150RPM #1



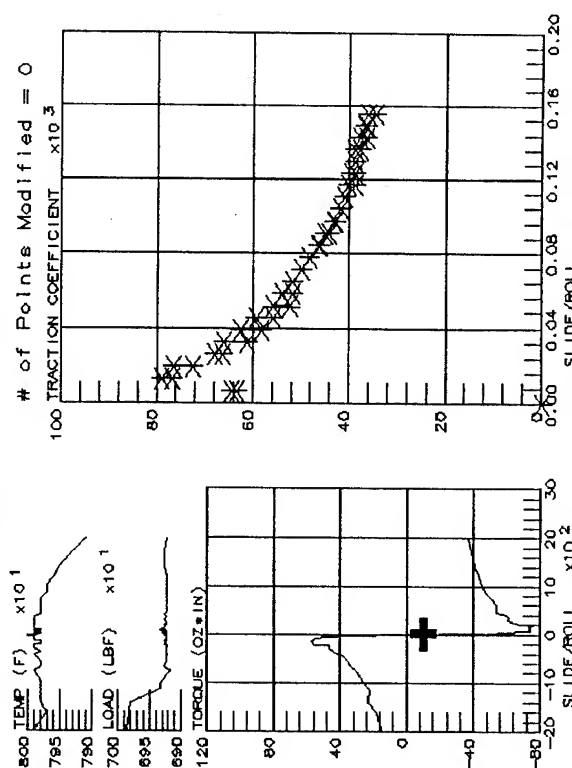
CF 92-162 Famblin Z-04 +0.5% Ausimont #82
80F 9LBF 10150RPM #2



CF 92-162 Famblin Z-04 +0.5% Ausimont #83
80F 21LBF 10150RPM #3

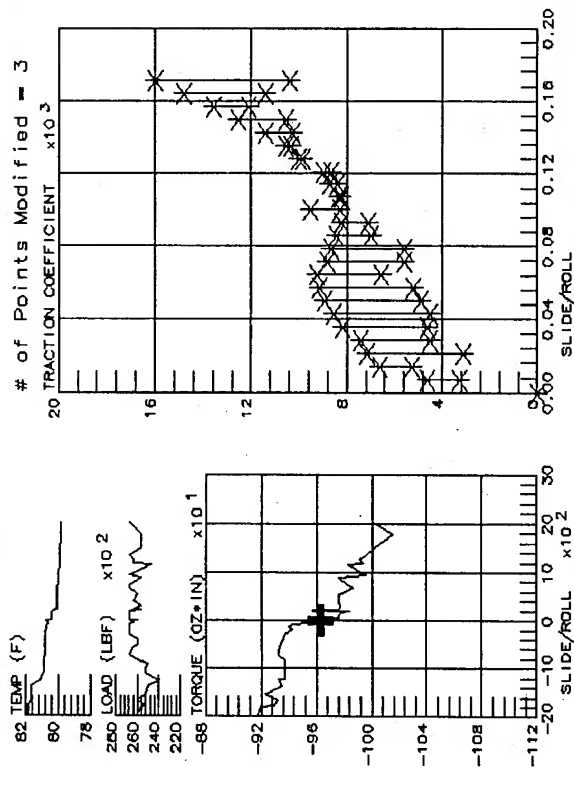


CF 92-162 Famblin Z-04 +0.5% Ausimont #84
80F 70LBF 10150RPM #4

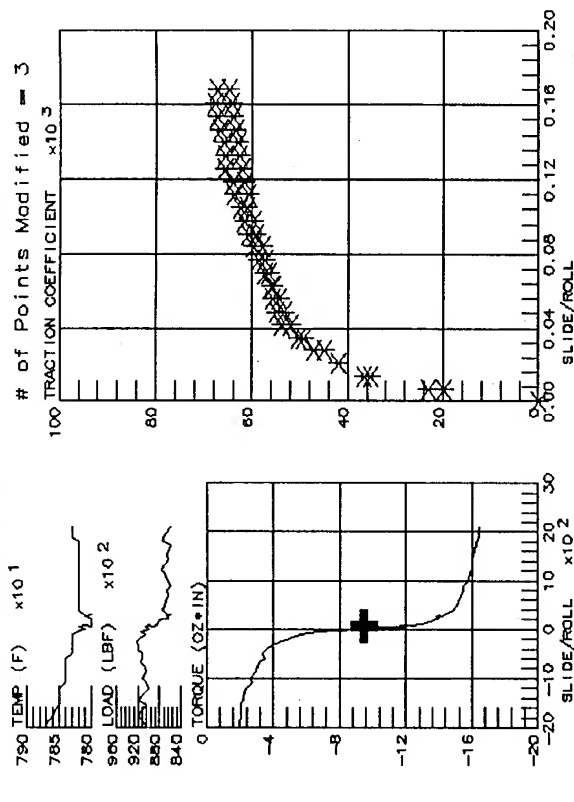


TRACTION DATA

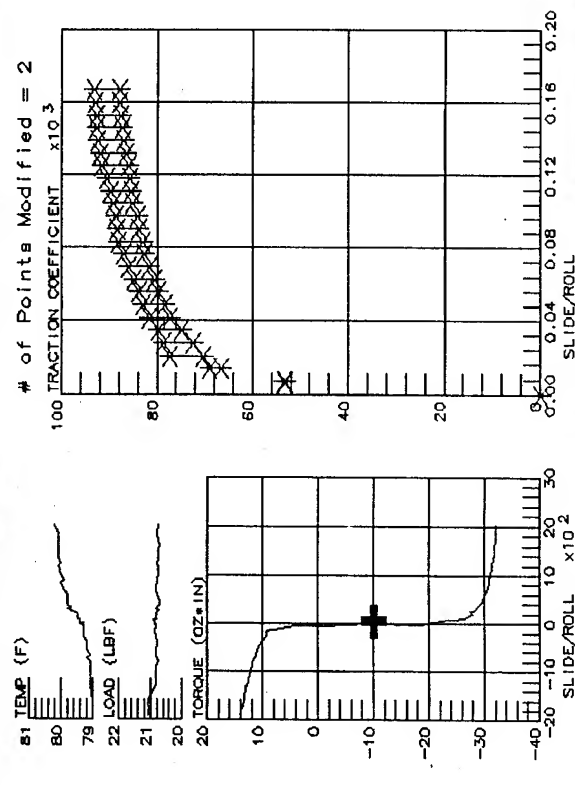
CF 92-162 Fomblin Z-04 +0.5% Ausimont #85
80F 3LBF 636RPM #1



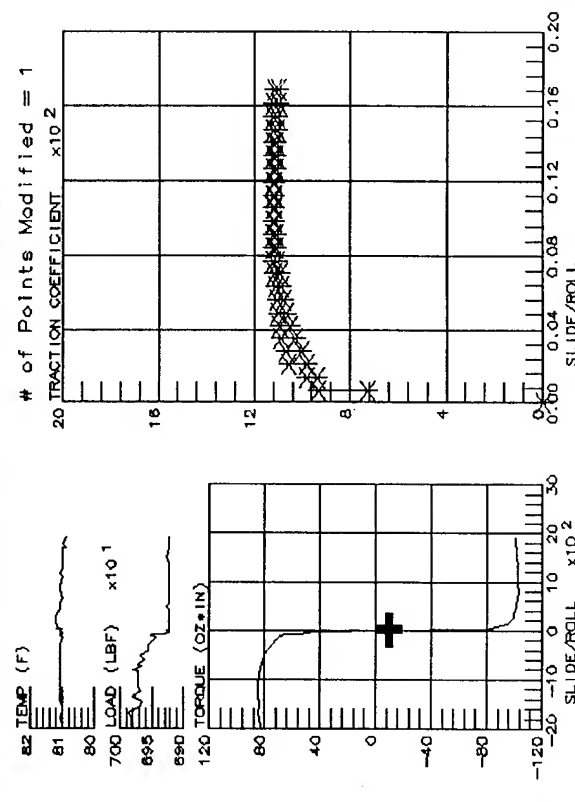
CF 92-162 Fomblin Z-04 +0.5% Ausimont #86
80F 9LBF 636RPM #2



CF 92-162 Fomblin Z-04 +0.5% Ausimont #87
80F 21LBF 636RPM #3

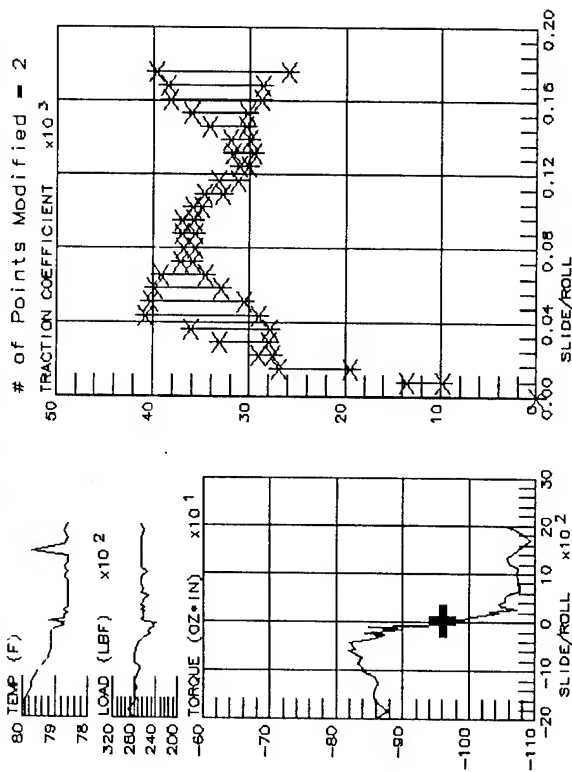


CF 92-162 Fomblin Z-04 +0.5% Ausimont #88
80F 70LBF 636RPM #4

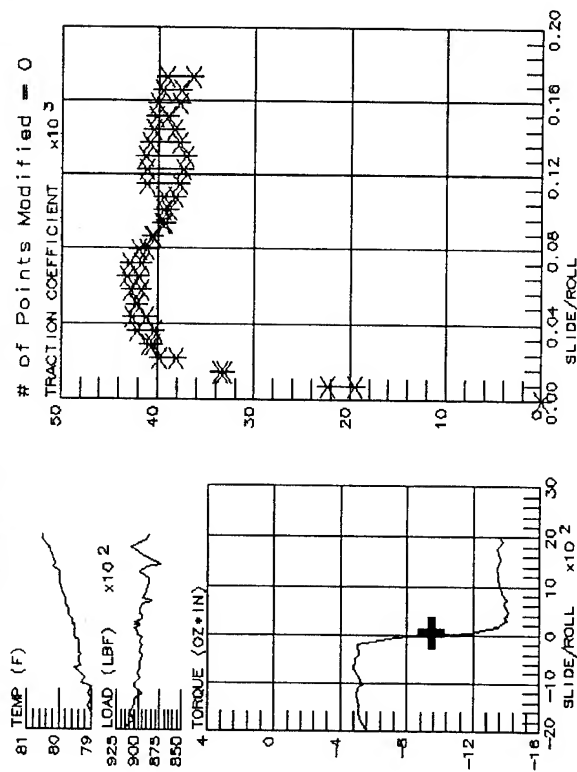


TRACTION DATA

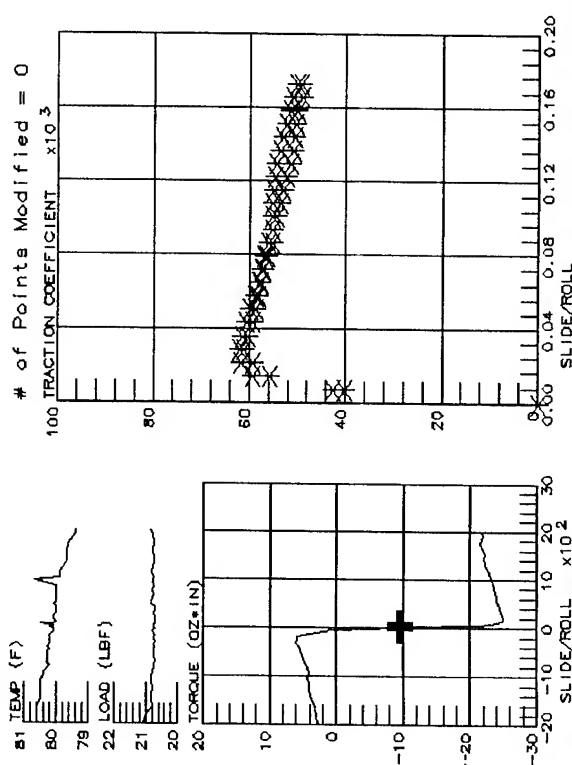
CF 92-162 Fomblin Z-04 +0.5% Ausimont #89
80F 3LBF 2550RPM #5



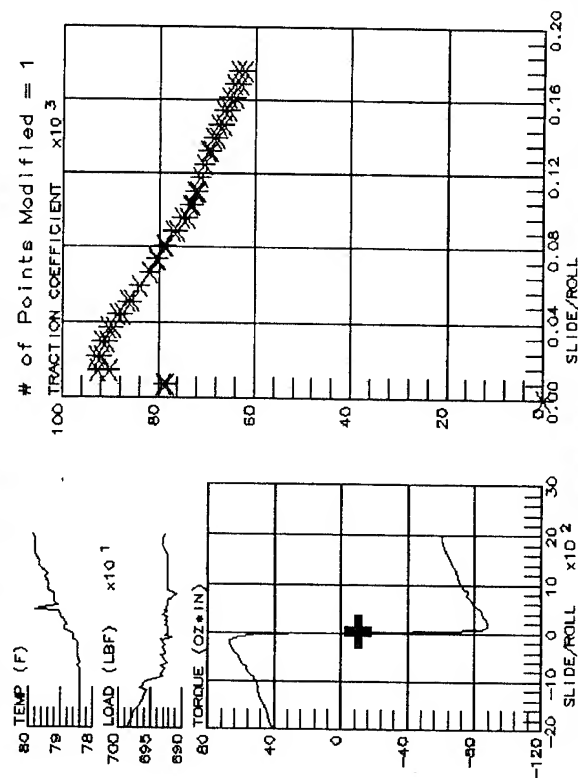
CF 92-162 Fomblin Z-04 +0.5% Ausimont #90
80F 9LBF 2550RPM #8



CF 92-162 Fomblin Z-04 +0.5% Ausimont #91
80F 21LBF 2550RPM #7



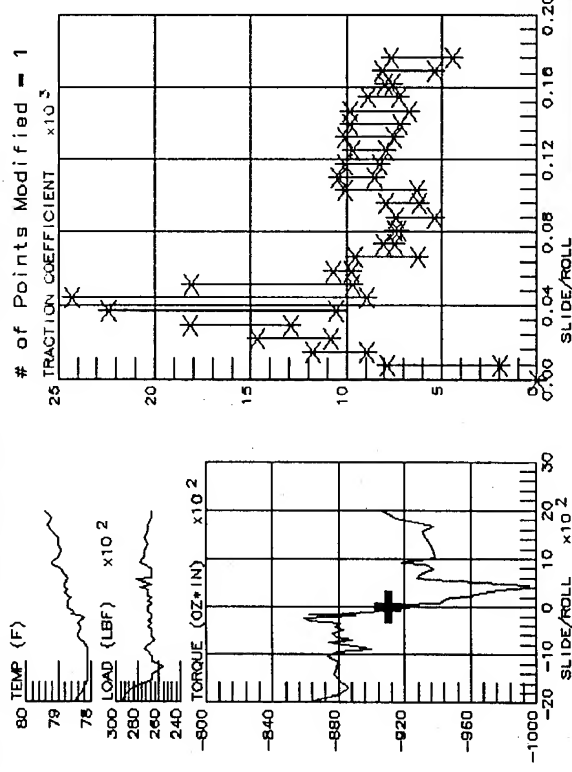
CF 92-162 Fomblin Z-04 +0.5% Ausimont #92
80F 70LBF 2550RPM #8



TRACTION DATA

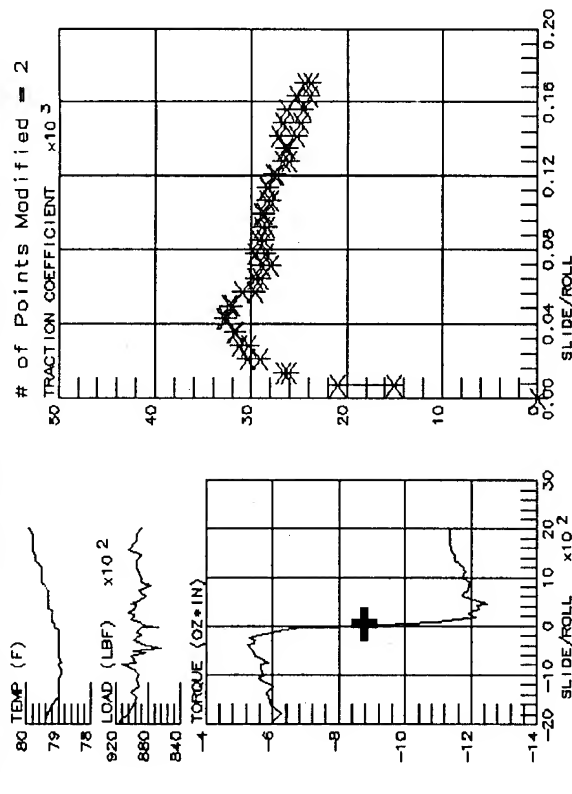
CF 92-162 Fomblin Z-04 +0.5% Ausimont #93
80F 31BF 5100RPM #9

of Points Modified = 1



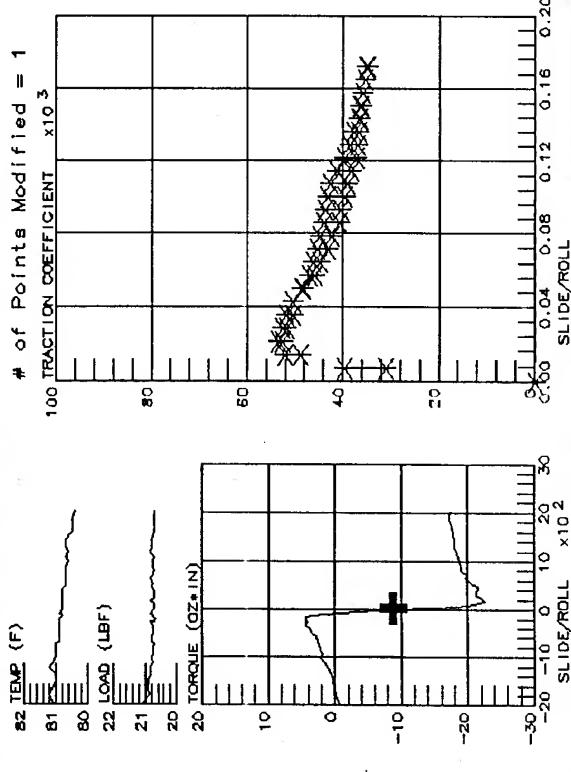
CF 92-162 Fomblin Z-04 +0.5% Ausimont #94
80F 91BF 5100RPM #10

of Points Modified = 2



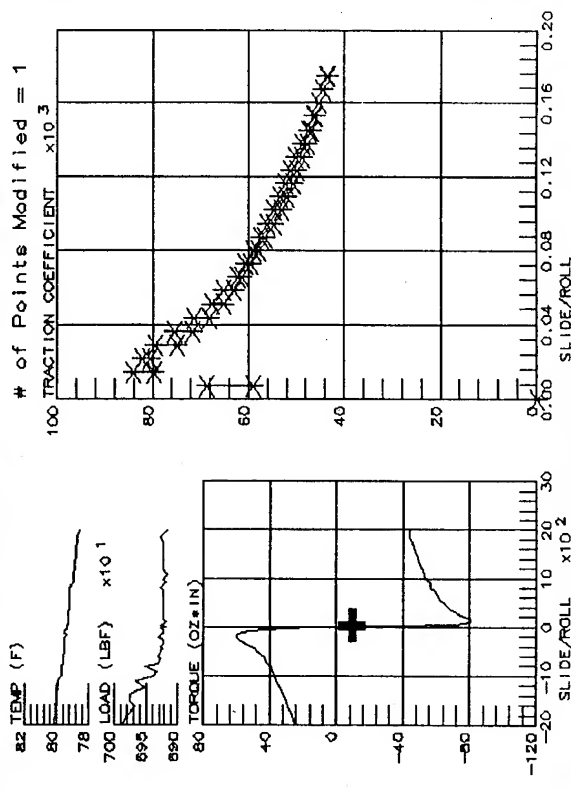
CF 92-162 Fomblin Z-04 +0.5% Ausimont #95
80F 21BF 5100RPM #11

of Points Modified = 1



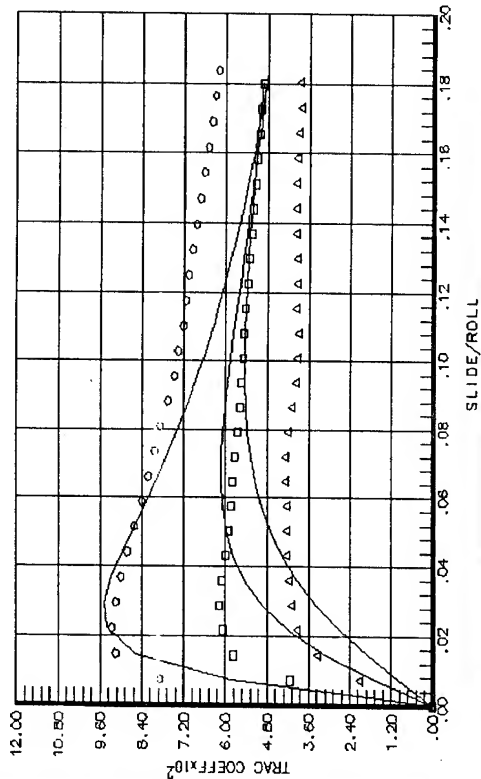
CF 92-162 Fomblin Z-04 +0.5% Ausimont #96
80F 70LBF 5100RPM #12

of Points Modified = 1



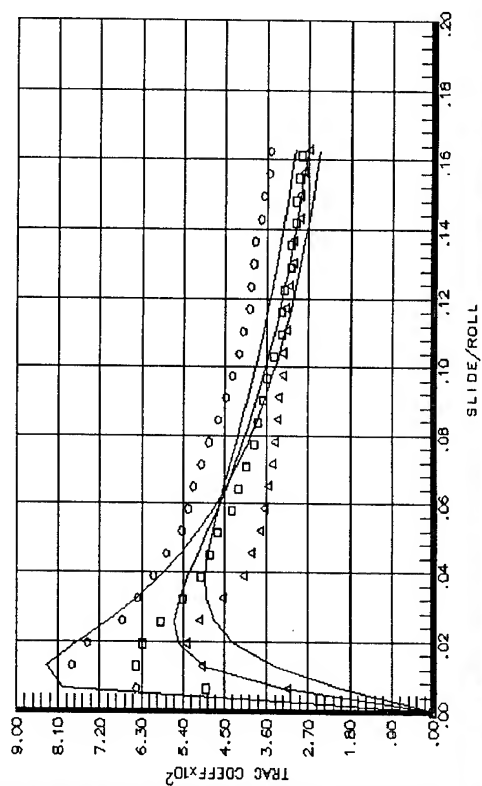
CF 92-162 Fomblin Z-04 +0.5% Ausimont
NEWTONIAN MODEL TYPE 1 of 2.dat

ALFA* BETA*
XMU*
38N 5.08M/S 300K # 80 1.357E+01 3.000E-09 5.449E-02
91N 5.08M/S 300K # 91 1.357E+01 3.000E-09 5.449E-02
307N 5.08M/S 300K # 92 1.357E+01 3.000E-09 5.449E-02



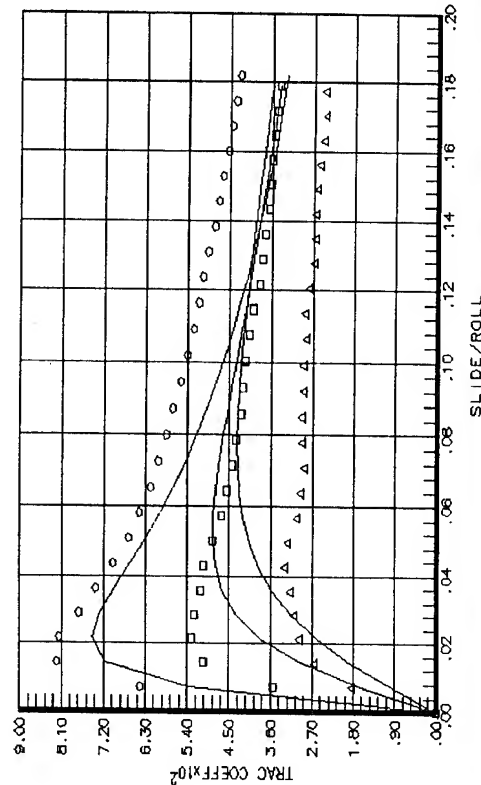
CF 92-162 Fomblin Z-04 +0.5% Ausimont
NEWTONIAN MODEL TYPE 1 of 4.dat

ALFA* BETA*
XMU*
38N 20.25M/S 300K # 82 2.078E+01 3.000E-09 1.621E-02
91N 20.25M/S 300K # 83 2.078E+01 3.000E-09 1.621E-02
307N 20.25M/S 300K # 84 2.078E+01 3.000E-09 1.621E-02



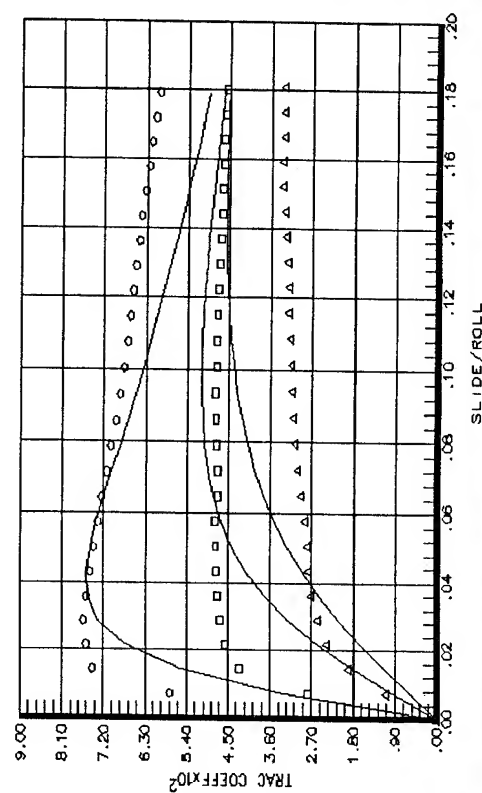
CF 92-162 Fomblin Z-04 +0.5% Ausimont
NEWTONIAN MODEL TYPE 1 of 8.dat

ALFA* BETA*
XMU*
38N 10.17M/S 300K # 54 1.104E+01 3.000E-09 2.785E-02
91N 10.17M/S 300K # 55 1.104E+01 3.000E-09 2.785E-02
307N 10.17M/S 300K # 56 1.104E+01 3.000E-09 2.785E-02



CF 92-162 Fomblin Z-04 +0.5% Ausimont
NEWTONIAN MODEL TYPE 1 of 8.dat

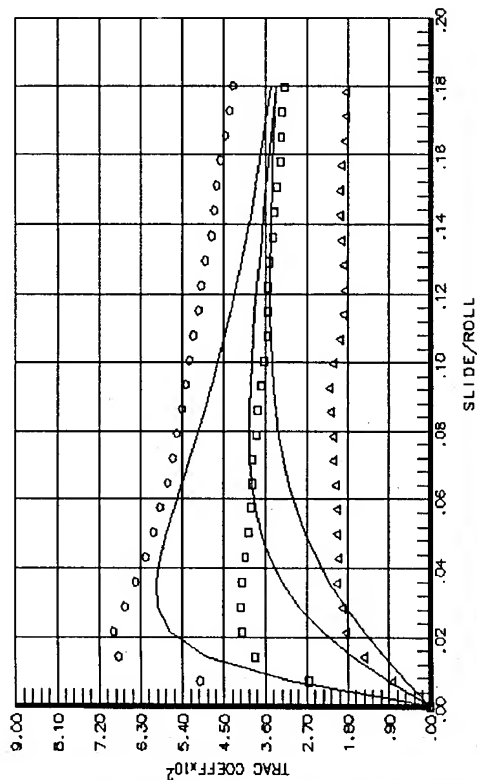
ALFA* BETA*
XMU*
38N 5.09M/S 311K # 10 7.851E+00 3.000E-09 4.525E-02
91N 5.09M/S 311K # 11 7.851E+00 3.000E-09 4.525E-02
307N 5.09M/S 311K # 12 7.851E+00 3.000E-09 4.525E-02



CF 92-162 Fomblin Z-04 +0.5% Ausimont

NEWTONIAN MODEL TYPE 1

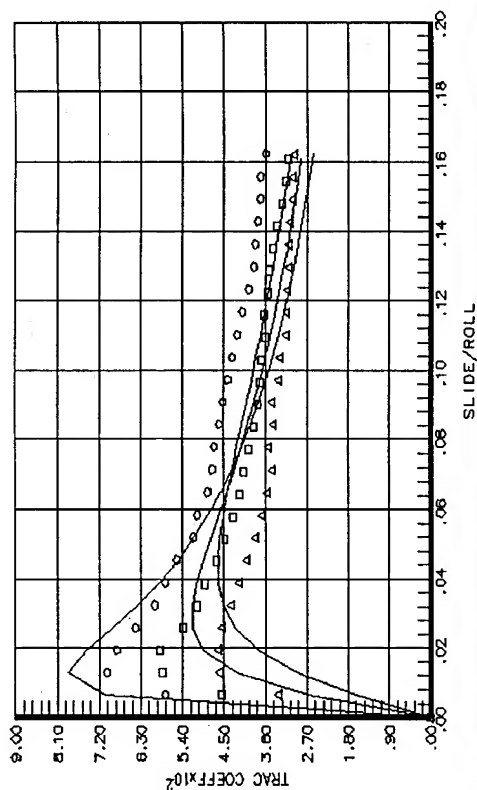
MODEL	38N	91N	307N	10.17M/S	311K	# 14	5.710E+00	3.000E-09	2.203E-02	BETA*
1008MPa	38N	91N	307N	10.17M/S	311K	# 14	5.710E+00	3.000E-09	2.203E-02	BETA*
1328MPa	38N	91N	307N	10.17M/S	311K	# 15	5.710E+00	3.000E-09	2.203E-02	BETA*
1987MPa	38N	91N	307N	10.17M/S	311K	# 16	5.710E+00	3.000E-09	2.203E-02	BETA*



CF 92-162 Fomblin Z-04 +0.5% Ausimont

NEWTONIAN MODEL TYPE 1

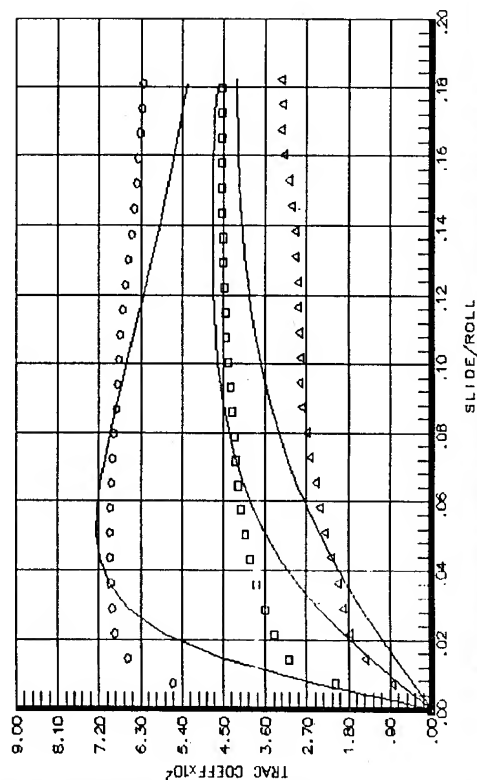
MODEL	38N	91N	307N	20.25M/S	311K	# 2	1.868E+01	3.000E-09	1.483E-02	BETA*
1004MPa	38N	91N	307N	20.25M/S	311K	# 2 <td>1.868E+01</td> <td>3.000E-09</td> <td>1.483E-02 <td>BETA*</td> </td>	1.868E+01	3.000E-09	1.483E-02 <td>BETA*</td>	BETA*
1329MPa	38N	91N	307N	20.25M/S	311K	# 3 <td>1.868E+01</td> <td>3.000E-09</td> <td>1.483E-02 <td>BETA*</td> </td>	1.868E+01	3.000E-09	1.483E-02 <td>BETA*</td>	BETA*
1987MPa	38N	91N	307N	20.25M/S	311K	# 4 <td>1.868E+01</td> <td>3.000E-09</td> <td>1.483E-02 <td>BETA*</td> </td>	1.868E+01	3.000E-09	1.483E-02 <td>BETA*</td>	BETA*



CF 92-162 Fomblin Z-04 +0.5% Ausimont

NEWTONIAN MODEL TYPE 1

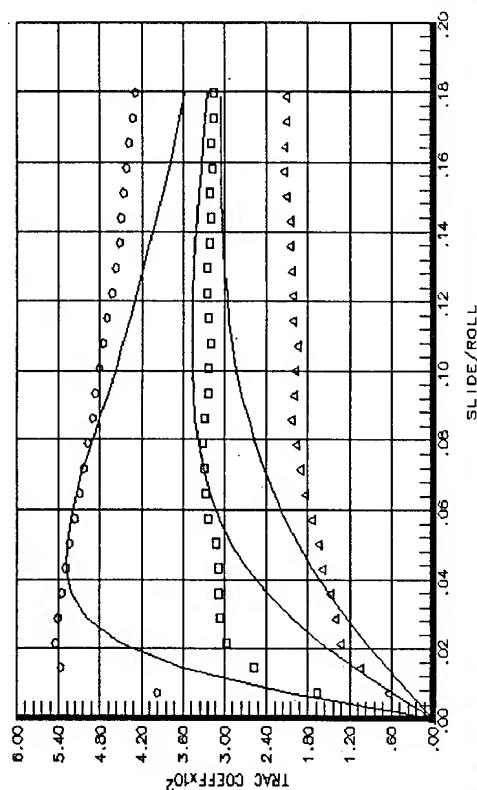
MODEL	38N	91N	307N	5.09M/S	339K	# 26	5.505E+00	3.000E-09	3.659E-02	BETA*
1008MPa	38N	91N	307N	5.09M/S <td>339K</td> <td># 26 <td>5.505E+00 <td>3.000E-09 <td>3.659E-02 <td>BETA*</td> </td></td></td></td>	339K	# 26 <td>5.505E+00 <td>3.000E-09 <td>3.659E-02 <td>BETA*</td> </td></td></td>	5.505E+00 <td>3.000E-09 <td>3.659E-02 <td>BETA*</td> </td></td>	3.000E-09 <td>3.659E-02 <td>BETA*</td> </td>	3.659E-02 <td>BETA*</td>	BETA*
1328MPa	38N	91N	307N	5.09M/S <td>339K</td> <td># 27 <td>5.505E+00 <td>3.000E-09 <td>3.659E-02 <td>BETA*</td> </td></td></td></td>	339K	# 27 <td>5.505E+00 <td>3.000E-09 <td>3.659E-02 <td>BETA*</td> </td></td></td>	5.505E+00 <td>3.000E-09 <td>3.659E-02 <td>BETA*</td> </td></td>	3.000E-09 <td>3.659E-02 <td>BETA*</td> </td>	3.659E-02 <td>BETA*</td>	BETA*
1987MPa	38N	91N	307N	5.09M/S <td>339K</td> <td># 28 <td>5.505E+00 <td>3.000E-09 <td>3.659E-02 <td>BETA*</td> </td></td></td></td>	339K	# 28 <td>5.505E+00 <td>3.000E-09 <td>3.659E-02 <td>BETA*</td> </td></td></td>	5.505E+00 <td>3.000E-09 <td>3.659E-02 <td>BETA*</td> </td></td>	3.000E-09 <td>3.659E-02 <td>BETA*</td> </td>	3.659E-02 <td>BETA*</td>	BETA*



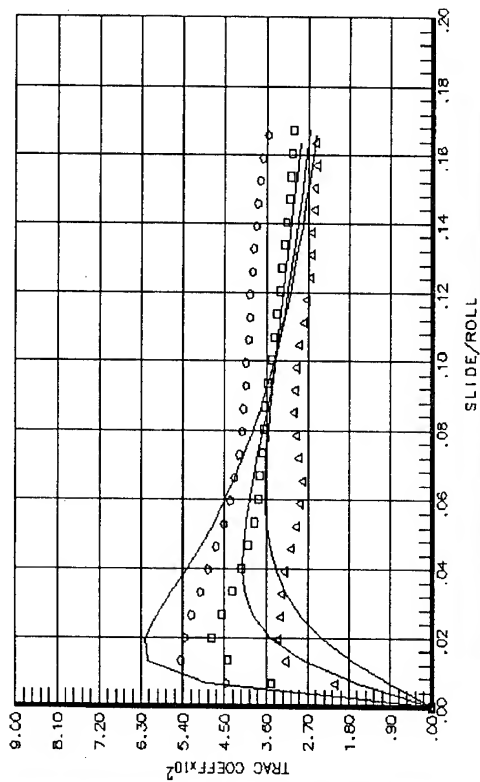
CF 92-162 Fomblin Z-04 +0.5% Ausimont

NEWTONIAN MODEL TYPE 1

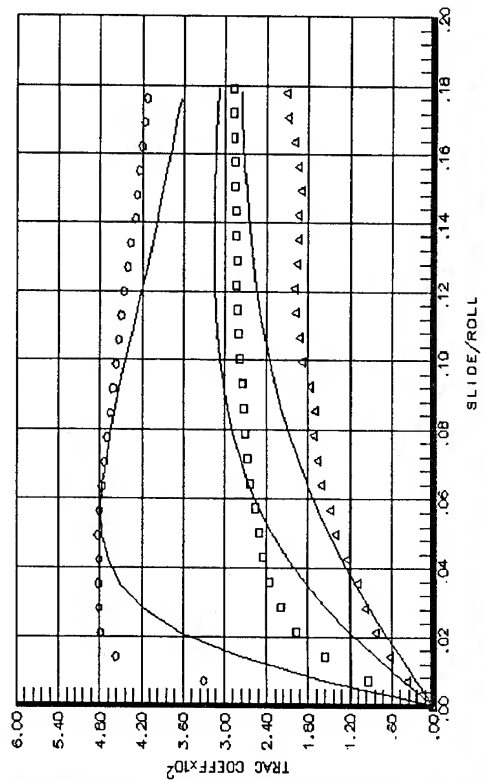
MODEL	38N	91N	307N	10.17M/S	339K	# 30	3.891E+00	3.000E-09	1.845E-02	BETA*
1003MPa	38N	91N	307N	10.17M/S <td>339K</td> <td># 30 <td>3.891E+00 <td>3.000E-09 <td>1.845E-02 <td>BETA*</td> </td></td></td></td>	339K	# 30 <td>3.891E+00 <td>3.000E-09 <td>1.845E-02 <td>BETA*</td> </td></td></td>	3.891E+00 <td>3.000E-09 <td>1.845E-02 <td>BETA*</td> </td></td>	3.000E-09 <td>1.845E-02 <td>BETA*</td> </td>	1.845E-02 <td>BETA*</td>	BETA*
1329MPa	38N	91N	307N	10.17M/S <td>339K</td> <td># 31 <td>3.891E+00 <td>3.000E-09 <td>1.845E-02 <td>BETA*</td> </td></td></td></td>	339K	# 31 <td>3.891E+00 <td>3.000E-09 <td>1.845E-02 <td>BETA*</td> </td></td></td>	3.891E+00 <td>3.000E-09 <td>1.845E-02 <td>BETA*</td> </td></td>	3.000E-09 <td>1.845E-02 <td>BETA*</td> </td>	1.845E-02 <td>BETA*</td>	BETA*
1987MPa	38N	91N	307N	10.17M/S <td>339K</td> <td># 32 <td>3.891E+00 <td>3.000E-09 <td>1.845E-02 <td>BETA*</td> </td></td></td></td>	339K	# 32 <td>3.891E+00 <td>3.000E-09 <td>1.845E-02 <td>BETA*</td> </td></td></td>	3.891E+00 <td>3.000E-09 <td>1.845E-02 <td>BETA*</td> </td></td>	3.000E-09 <td>1.845E-02 <td>BETA*</td> </td>	1.845E-02 <td>BETA*</td>	BETA*



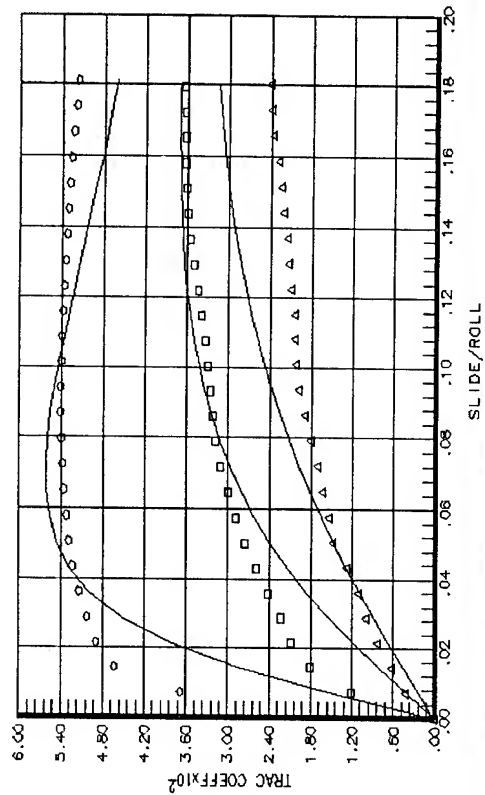
CF 92-162 Fomblin Z-04 +0.5% Ausimont
 TYPE 1 of 12.dat
 NEWTONIAN MODEL
 38N 20.25M/S 339K # 18 9.244E+00 3.000E-09 1.321E-02 BETA*
 91N 20.25M/S 339K # 19 9.244E+00 3.000E-09 1.321E-02 ALFA*
 307N 20.25M/S 339K # 20 9.244E+00 3.000E-09 1.321E-02 XMU*
 1002MPA 38N 5.00M/S 367K # 42 3.256E+00 3.000E-09 3.602E-02 BETA*
 1329MPA 91N 5.00M/S 367K # 43 3.256E+00 3.000E-09 3.602E-02 ALFA*
 1988MPA 307N 5.00M/S 367K # 44 3.256E+00 3.000E-09 3.602E-02 XMU*



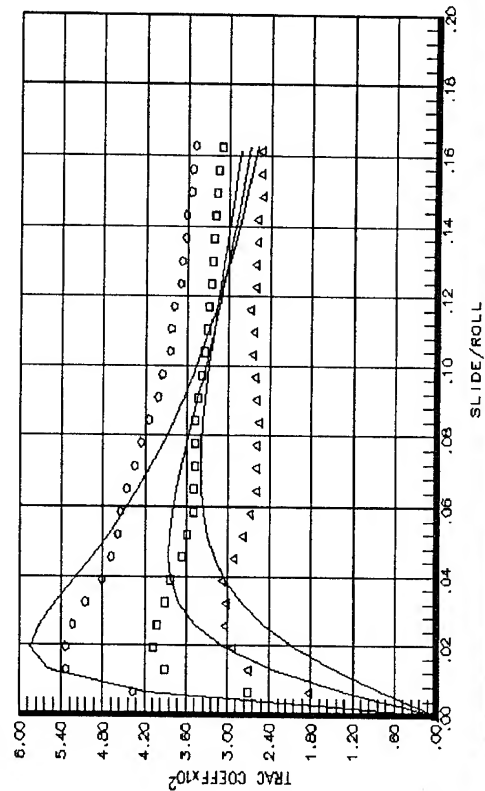
CF 92-162 Fomblin Z-04 +0.5% Ausimont
 TYPE 1 of 15.dat
 NEWTONIAN MODEL
 38N 10.17M/S 367K # 45 2.713E+00 3.000E-09 1.637E-02 BETA*
 91N 10.17M/S 367K # 47 2.713E+00 3.000E-09 1.637E-02 ALFA*
 307N 10.17M/S 367K # 48 2.713E+00 3.000E-09 1.637E-02 XMU*
 1003MPA 38N 20.25M/S 367K # 34 7.664E+00 3.000E-09 1.245E-02 BETA*
 1329MPA 91N 20.25M/S 367K # 35 7.664E+00 3.000E-09 1.245E-02 ALFA*
 1988MPA 307N 20.25M/S 367K # 36 7.664E+00 3.000E-09 1.245E-02 XMU*



CF 92-162 Fomblin Z-04 +0.5% Ausimont
 TYPE 1 of 14.dat
 NEWTONIAN MODEL
 38N 5.00M/S 367K # 42 3.256E+00 3.000E-09 3.602E-02 BETA*
 91N 5.00M/S 367K # 43 3.256E+00 3.000E-09 3.602E-02 ALFA*
 307N 5.00M/S 367K # 44 3.256E+00 3.000E-09 3.602E-02 XMU*

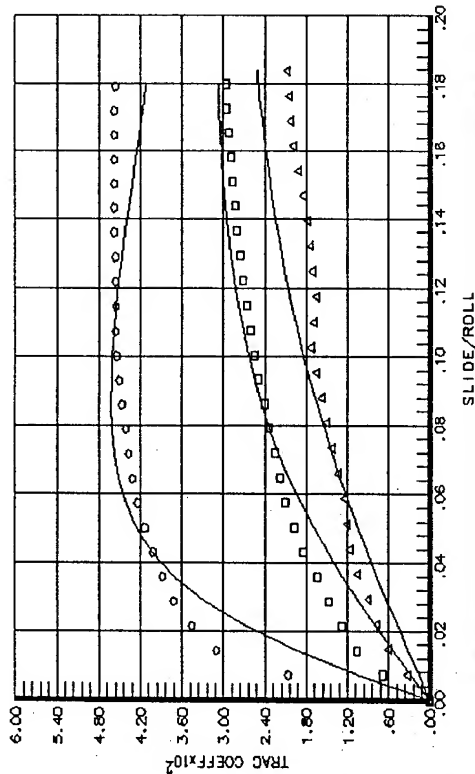


CF 92-162 Fomblin Z-04 +0.5% Ausimont
 TYPE 1 of 16.dat
 NEWTONIAN MODEL
 38N 20.25M/S 367K # 34 7.664E+00 3.000E-09 1.245E-02 BETA*
 91N 20.25M/S 367K # 35 7.664E+00 3.000E-09 1.245E-02 ALFA*
 307N 20.25M/S 367K # 36 7.664E+00 3.000E-09 1.245E-02 XMU*



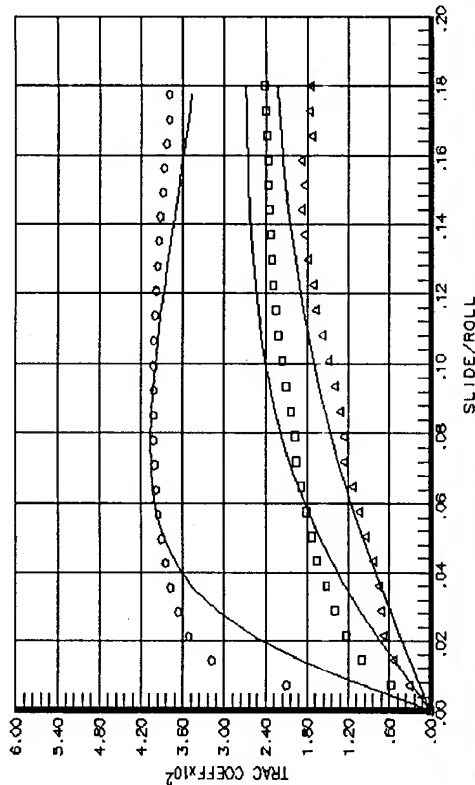
CF 92-162 Fomblin Z-04 +0.5% Ausimont
NEWTONIAN MODEL TYPE 1 of18.dat

NEWTONIAN MODEL	3BN	91N	307N	5.09M/S 394K # 58	5.09M/S 394K # 59	5.09M/S 394K # 60	2.230E+00	2.230E+00	2.230E+00	3.000E+00	3.000E+00	3.000E+00	3.531E-02	3.531E-02	3.531E-02
1007MPa	1007MPa	1007MPa	1007MPa	1007MPa	1007MPa	1007MPa	1007MPa	1007MPa	1007MPa	1007MPa	1007MPa	1007MPa	1007MPa	1007MPa	1007MPa
1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa
1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa



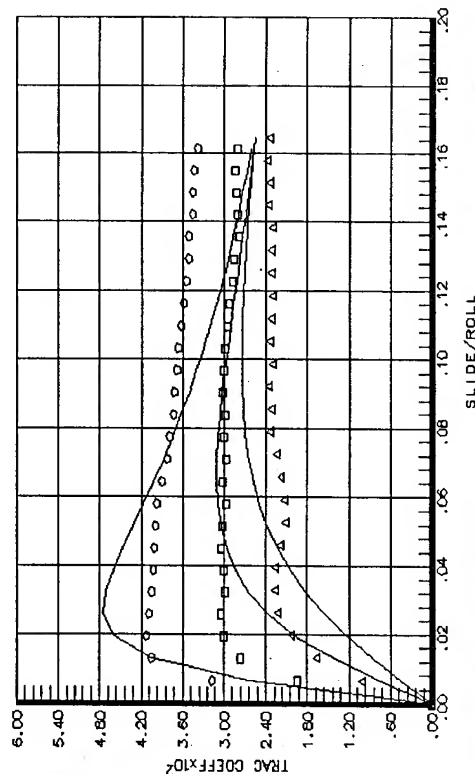
CF 92-162 Fomblin Z-04 +0.5% Ausimont
NEWTONIAN MODEL TYPE 1 of19.dat

NEWTONIAN MODEL	3BN	91N	307N	10.17M/S 394K # 62	10.17M/S 394K # 63	10.17M/S 394K # 64	1.713E+00	1.713E+00	1.713E+00	3.000E+00	3.000E+00	3.000E+00	1.425E-02	1.425E-02	1.425E-02
1008MPa	1008MPa	1008MPa	1008MPa	1008MPa	1008MPa	1008MPa	1008MPa	1008MPa	1008MPa	1008MPa	1008MPa	1008MPa	1008MPa	1008MPa	1008MPa
1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa
1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa



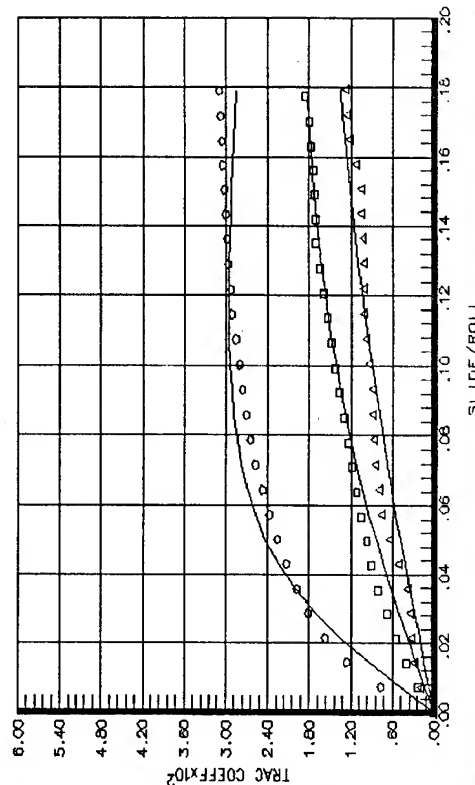
CF 92-162 Fomblin Z-04 +0.5% Ausimont
NEWTONIAN MODEL TYPE 1 of20.dat

NEWTONIAN MODEL	3BN	91N	307N	20.25M/S 394K # 50	20.25M/S 394K # 51	20.25M/S 394K # 52	4.368E+00	4.368E+00	4.368E+00	3.000E+00	3.000E+00	3.000E+00	1.086E-02	1.086E-02	1.086E-02
1004MPa	1004MPa	1004MPa	1004MPa	1004MPa	1004MPa	1004MPa	1004MPa	1004MPa	1004MPa	1004MPa	1004MPa	1004MPa	1004MPa	1004MPa	1004MPa
1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa
1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa	1987MPa

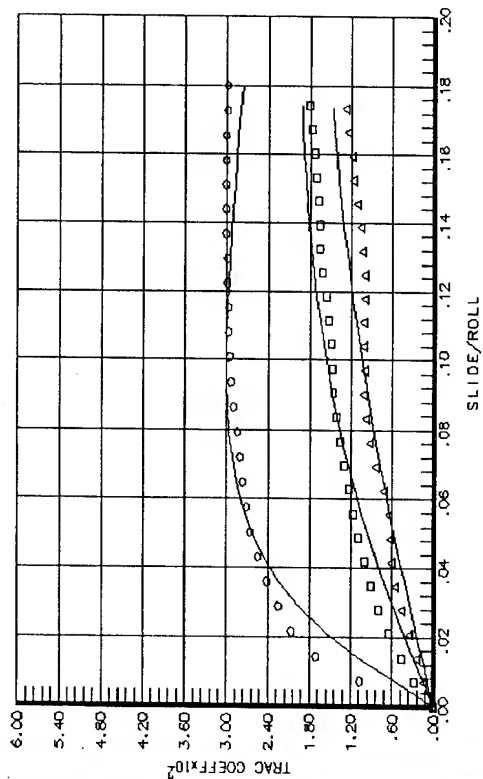


CF 92-162 Fomblin Z-04 +0.5% Ausimont
NEWTONIAN MODEL TYPE 1 of22.dat

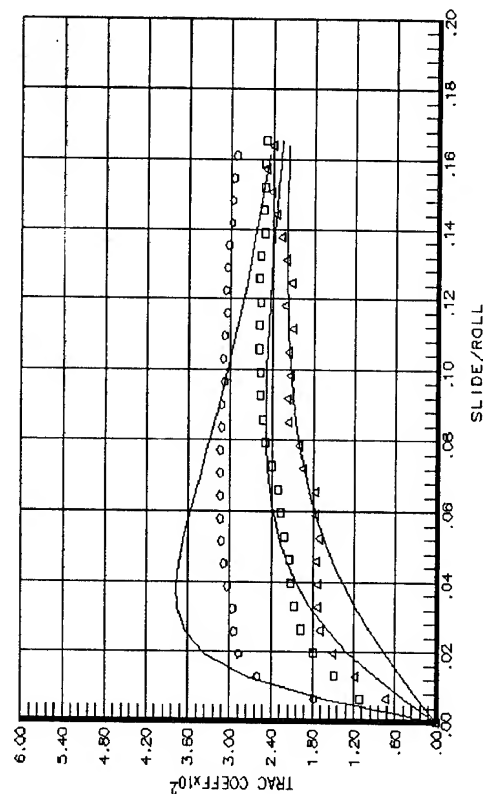
NEWTONIAN MODEL	3BN	91N	307N	5.09M/S 422K # 74	5.09M/S 422K # 75	5.09M/S 422K # 76	1.048E+00	1.048E+00	1.048E+00	3.000E+00	3.000E+00	3.000E+00	4.050E-02	4.050E-02	4.050E-02
1003MPa	1003MPa	1003MPa	1003MPa	1003MPa	1003MPa	1003MPa	1003MPa	1003MPa	1003MPa	1003MPa	1003MPa	1003MPa	1003MPa	1003MPa	1003MPa
1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa	1328MPa
1988MPa	1988MPa	1988MPa	1988MPa	1988MPa	1988MPa	1988MPa	1988MPa	1988MPa	1988MPa	1988MPa	1988MPa	1988MPa	1988MPa	1988MPa	1988MPa



CF 92-162 Fomblin Z-04 +0.5% Ausimont
 NEWTONIAN MODEL TYPE 1
 384 10.17M/S 422K # 78 9.892E-01 3.000E-01 1.467E-02
 51N 10.17M/S 422K # 79 9.892E-01 3.000E-01 1.467E-02
 307N 10.17M/S 422K # 80 9.892E-01 3.000E-01 1.467E-02



CF 92-162 Fomblin Z-04 +0.5% Ausimont
 NEWTONIAN MODEL TYPE 1
 38N 20.25M/S 422K # 89 2.585E+00 3.000E-09 1.007E-02
 51N 20.25M/S 422K # 90 2.585E+00 3.000E-09 1.007E-02
 307N 20.25M/S 422K # 91 2.585E+00 3.000E-09 1.007E-02



7. Traction Data Set F: 89-191 Fomblin Z25 Base

Data set name: CH 89-191 Fomblin Z-25 Base Fluid
 Rolling radii [Disks 1 & 2] (in): 0.75 0.75
 Crown radii [Disks 1 & 2] (in): 0.80 0.90

Number of data sets found = 225

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
1	100.00	3.03	2295.00	2805.00	2550.00	50	ch100h #1
2	100.00	10.22	2295.00	2805.00	2550.00	50	ch100h #2
3	100.00	24.23	2295.00	2805.00	2550.00	50	ch100h #3
4	100.00	47.31	2295.00	2805.00	2550.00	50	ch100h #4
5	100.00	81.75	2295.00	2805.00	2550.00	50	ch100h #5
6	100.00	3.03	4590.00	5610.00	5100.00	50	ch100h #6
7	100.00	10.22	4590.00	5610.00	5100.00	50	ch100h #7
8	100.00	24.23	4590.00	5610.00	5100.00	50	ch100h #8
9	100.00	47.31	4590.00	5610.00	5100.00	50	ch100h #9
10	100.00	81.75	4590.00	5610.00	5100.00	50	ch100h #10
11	100.00	3.03	9135.00	11165.00	10150.00	50	ch100h #11
12	100.00	10.22	9135.00	11165.00	10150.00	50	ch100h #12
13	100.00	24.23	9135.00	11165.00	10150.00	50	ch100h #13
14	100.00	47.31	9135.00	11165.00	10150.00	50	ch100h #14
15	100.00	81.75	9135.00	11165.00	10150.00	50	ch100h #15
16	100.00	3.03	137.00	167.00	152.00	24	ch100m #1
17	100.00	10.22	137.00	167.00	152.00	24	ch100m #2
18	100.00	24.23	137.00	167.00	152.00	24	ch100m #3
19	100.00	47.31	137.00	167.00	152.00	24	ch100m #4
20	100.00	81.75	137.00	167.00	152.00	24	ch100m #5
21	100.00	3.03	280.00	340.00	310.00	24	ch100m #6
22	100.00	10.22	280.00	340.00	310.00	24	ch100m #7
23	100.00	24.23	280.00	340.00	310.00	24	ch100m #8
24	100.00	47.31	280.00	340.00	310.00	24	ch100m #9
25	100.00	81.75	280.00	340.00	310.00	24	ch100m #10
26	100.00	3.03	572.00	699.00	635.50	24	ch100m #11
27	100.00	10.22	572.00	699.00	635.50	24	ch100m #12
28	100.00	24.23	572.00	699.00	635.50	24	ch100m #13
29	100.00	47.31	572.00	699.00	635.50	24	ch100m #14
30	100.00	81.75	572.00	699.00	635.50	24	ch100m #15
31	100.00	3.03	1143.00	1397.00	1270.00	24	ch100m #16
32	100.00	10.22	1143.00	1397.00	1270.00	24	ch100m #17
33	100.00	24.23	1143.00	1397.00	1270.00	24	ch100m #18
34	100.00	47.31	1143.00	1397.00	1270.00	24	ch100m #19
35	100.00	81.75	1143.00	1397.00	1270.00	24	ch100m #20
36	150.00	3.03	2295.00	2805.00	2550.00	50	ch150h #1
37	150.00	10.22	2295.00	2805.00	2550.00	50	ch150h #2
38	150.00	24.23	2295.00	2805.00	2550.00	50	ch150h #3
39	150.00	47.31	2295.00	2805.00	2550.00	50	ch150h #4
40	150.00	81.75	2295.00	2805.00	2550.00	50	ch150h #5
41	150.00	3.03	4590.00	5610.00	5100.00	50	ch150h #6
42	150.00	10.22	4590.00	5610.00	5100.00	50	ch150h #7
43	150.00	24.23	4590.00	5610.00	5100.00	50	ch150h #8
44	150.00	47.31	4590.00	5610.00	5100.00	50	ch150h #9
45	150.00	81.75	4590.00	5610.00	5100.00	50	ch150h #10
46	150.00	3.03	9135.00	11165.00	10150.00	50	ch150h #11
47	150.00	10.22	9135.00	11165.00	10150.00	50	ch150h #12
48	150.00	24.23	9135.00	11165.00	10150.00	50	ch150h #13
49	150.00	47.31	9135.00	11165.00	10150.00	50	ch150h #14
50	150.00	81.75	9135.00	11165.00	10150.00	50	ch150h #15

Data set: Cd 89-191 Fomblin Z-25 Base Fluidcontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
51	150.00	3.03	137.00	167.00	152.00	24	ch150m #1
52	150.00	10.22	137.00	167.00	152.00	24	ch150m #2
53	150.00	24.23	137.00	167.00	152.00	24	ch150m #3
54	150.00	47.31	137.00	167.00	152.00	24	ch150m #4
55	150.00	81.75	137.00	167.00	152.00	24	ch150m #5
56	150.00	3.03	280.00	340.00	310.00	24	ch150m #6
57	150.00	10.22	280.00	340.00	310.00	24	ch150m #7
58	150.00	24.23	280.00	340.00	310.00	24	ch150m #8
59	150.00	47.31	280.00	340.00	310.00	24	ch150m #9
60	150.00	81.75	280.00	340.00	310.00	24	ch150m #10
61	150.00	3.03	572.00	699.00	635.50	24	ch150m #11
62	150.00	10.22	572.00	699.00	635.50	24	ch150m #12
63	150.00	24.23	572.00	699.00	635.50	24	ch150m #13
64	150.00	47.31	572.00	699.00	635.50	24	ch150m #14
65	150.00	81.75	572.00	699.00	635.50	24	ch150m #15
66	150.00	3.03	1143.00	1397.00	1270.00	24	ch150m #16
67	150.00	10.22	1143.00	1397.00	1270.00	24	ch150m #17
68	150.00	24.23	1143.00	1397.00	1270.00	24	ch150m #18
69	150.00	47.31	1143.00	1397.00	1270.00	24	ch150m #19
70	150.00	81.75	1143.00	1397.00	1270.00	24	ch150m #20
71	200.00	3.03	2295.00	2805.00	2550.00	50	ch200h #1
72	200.00	10.22	2295.00	2805.00	2550.00	50	ch200h #2
73	200.00	24.23	2295.00	2805.00	2550.00	50	ch200h #3
74	200.00	47.31	2295.00	2805.00	2550.00	50	ch200h #4
75	200.00	81.75	2295.00	2805.00	2550.00	50	ch200h #5
76	200.00	3.03	4590.00	5610.00	5100.00	50	ch200h #6
77	200.00	10.22	4590.00	5610.00	5100.00	50	ch200h #7
78	200.00	24.23	4590.00	5610.00	5100.00	50	ch200h #8
79	200.00	47.31	4590.00	5610.00	5100.00	50	ch200h #9
80	200.00	81.75	4590.00	5610.00	5100.00	50	ch200h #10
81	200.00	3.03	9135.00	11165.00	10150.00	50	ch200h #11
82	200.00	10.22	9135.00	11165.00	10150.00	50	ch200h #12
83	200.00	24.23	9135.00	11165.00	10150.00	50	ch200h #13
84	200.00	47.31	9135.00	11165.00	10150.00	50	ch200h #14
85	200.00	81.75	9135.00	11165.00	10150.00	50	ch200h #15
86	200.00	3.03	137.00	167.00	152.00	24	ch200m #1
87	200.00	10.22	137.00	167.00	152.00	24	ch200m #2
88	200.00	24.23	137.00	167.00	152.00	24	ch200m #3
89	200.00	47.31	137.00	167.00	152.00	24	ch200m #4
90	200.00	81.75	137.00	167.00	152.00	24	ch200m #5
91	200.00	3.03	280.00	340.00	310.00	24	ch200m #6
92	200.00	10.22	280.00	340.00	310.00	24	ch200m #7
93	200.00	24.23	280.00	340.00	310.00	24	ch200m #8
94	200.00	47.31	280.00	340.00	310.00	24	ch200m #9
95	200.00	81.75	280.00	340.00	310.00	24	ch200m #10
96	200.00	3.03	572.00	699.00	635.50	24	ch200m #11
97	200.00	10.22	572.00	699.00	635.50	24	ch200m #12
98	200.00	24.23	572.00	699.00	635.50	24	ch200m #13
99	200.00	47.31	572.00	699.00	635.50	24	ch200m #14
100	200.00	81.75	572.00	699.00	635.50	24	ch200m #15
101	200.00	3.03	1143.00	1397.00	1270.00	24	ch200m #16
102	200.00	10.22	1143.00	1397.00	1270.00	24	ch200m #17
103	200.00	24.23	1143.00	1397.00	1270.00	24	ch200m #18
104	200.00	47.31	1143.00	1397.00	1270.00	24	ch200m #19
105	200.00	81.75	1143.00	1397.00	1270.00	24	ch200m #20
106	250.00	3.03	2295.00	2805.00	2550.00	50	ch250h #1
107	250.00	10.22	2295.00	2805.00	2550.00	50	ch250h #2
108	250.00	24.23	2295.00	2805.00	2550.00	50	ch250h #3
109	250.00	47.31	2295.00	2805.00	2550.00	50	ch250h #4
110	250.00	81.75	2295.00	2805.00	2550.00	50	ch250h #5
111	250.00	3.03	4590.00	5610.00	5100.00	50	ch250h #6
112	250.00	10.22	4590.00	5610.00	5100.00	50	ch250h #7
113	250.00	24.23	4590.00	5610.00	5100.00	50	ch250h #8
114	250.00	47.31	4590.00	5610.00	5100.00	50	ch250h #9
115	250.00	81.75	4590.00	5610.00	5100.00	50	ch250h #10
116	250.00	3.03	9135.00	11165.00	10150.00	50	ch250h #11
117	250.00	10.22	9135.00	11165.00	10150.00	50	ch250h #12
118	250.00	24.23	9135.00	11165.00	10150.00	50	ch250h #13
119	250.00	47.31	9135.00	11165.00	10150.00	50	ch250h #14
120	250.00	81.75	9135.00	11165.00	10150.00	50	ch250h #15

Data set: CH 89-191 Fomblin Z-25 Base Fluidcontinued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
121	250.00	3.03	137.00	167.00	152.00	24	ch250m #1
122	250.00	10.22	137.00	167.00	152.00	24	ch250m #2
123	250.00	24.23	137.00	167.00	152.00	24	ch250m #3
124	250.00	47.31	137.00	167.00	152.00	24	ch250m #4
125	250.00	81.75	137.00	167.00	152.00	24	ch250m #5
126	250.00	3.03	280.00	340.00	310.00	24	ch250m #6
127	250.00	10.22	280.00	340.00	310.00	24	ch250m #7
128	250.00	24.23	280.00	340.00	310.00	24	ch250m #8
129	250.00	47.31	280.00	340.00	310.00	24	ch250m #9
130	250.00	81.75	280.00	340.00	310.00	24	ch250m #10
131	250.00	3.03	572.00	699.00	635.50	24	ch250m #11
132	250.00	10.22	572.00	699.00	635.50	24	ch250m #12
133	250.00	24.23	572.00	699.00	635.50	24	ch250m #13
134	250.00	47.31	572.00	699.00	635.50	24	ch250m #14
135	250.00	81.75	572.00	699.00	635.50	24	ch250m #15
136	250.00	3.03	1143.00	1397.00	1270.00	24	ch250m #16
137	250.00	10.22	1143.00	1397.00	1270.00	24	ch250m #17
138	250.00	24.23	1143.00	1397.00	1270.00	24	ch250m #18
139	250.00	47.31	1143.00	1397.00	1270.00	24	ch250m #19
140	250.00	81.75	1143.00	1397.00	1270.00	24	ch250m #20
141	300.00	3.03	2346.00	2754.00	2550.00	50	ch300h #1
142	300.00	10.22	2346.00	2754.00	2550.00	50	ch300h #2
143	300.00	24.23	2346.00	2754.00	2550.00	50	ch300h #3
144	300.00	47.31	2346.00	2754.00	2550.00	50	ch300h #4
145	300.00	81.75	2346.00	2754.00	2550.00	50	ch300h #5
146	300.00	3.03	4896.00	5304.00	5100.00	50	ch300h #6
147	300.00	10.22	4896.00	5304.00	5100.00	50	ch300h #7
148	300.00	24.23	4896.00	5304.00	5100.00	50	ch300h #8
149	300.00	47.31	4896.00	5304.00	5100.00	50	ch300h #9
150	300.00	81.75	4896.00	5304.00	5100.00	50	ch300h #10
151	300.00	3.03	9947.00	10353.00	10150.00	50	ch300h #11
152	300.00	10.22	9947.00	10353.00	10150.00	50	ch300h #12
153	300.00	24.23	9947.00	10353.00	10150.00	50	ch300h #13
154	300.00	47.31	9947.00	10353.00	10150.00	50	ch300h #14
155	300.00	81.75	9947.00	10353.00	10150.00	50	ch300h #15
156	300.00	3.03	2295.00	2805.00	2550.00	50	ch300hx #1
157	300.00	10.22	2295.00	2805.00	2550.00	50	ch300hx #2
158	300.00	24.23	2295.00	2805.00	2550.00	50	ch300hx #3
159	300.00	47.31	2295.00	2805.00	2550.00	50	ch300hx #4
160	300.00	81.75	2295.00	2805.00	2550.00	50	ch300hx #5
161	300.00	3.03	4590.00	5610.00	5100.00	50	ch300hx #6
162	300.00	10.22	4590.00	5610.00	5100.00	50	ch300hx #7
163	300.00	24.23	4590.00	5610.00	5100.00	50	ch300hx #8
164	300.00	47.31	4590.00	5610.00	5100.00	50	ch300hx #9
165	300.00	81.75	4590.00	5610.00	5100.00	50	ch300hx #10
166	300.00	3.03	9135.00	11165.00	10150.00	50	ch300hx #11
167	300.00	10.22	9135.00	11165.00	10150.00	50	ch300hx #12
168	300.00	24.23	9135.00	11165.00	10150.00	50	ch300hx #13
169	300.00	47.31	9135.00	11165.00	10150.00	50	ch300hx #14
170	300.00	81.75	9135.00	11165.00	10150.00	50	ch300hx #15
171	300.00	3.03	137.00	167.00	152.00	24	ch300m #1
172	300.00	10.22	137.00	167.00	152.00	24	ch300m #2
173	300.00	24.23	137.00	167.00	152.00	24	ch300m #3
174	300.00	47.31	137.00	167.00	152.00	24	ch300m #4
175	300.00	81.75	137.00	167.00	152.00	24	ch300m #5
176	300.00	3.03	280.00	340.00	310.00	24	ch300m #6
177	300.00	10.22	280.00	340.00	310.00	24	ch300m #7
178	300.00	24.23	280.00	340.00	310.00	24	ch300m #8
179	300.00	47.31	280.00	340.00	310.00	24	ch300m #9
180	300.00	81.75	280.00	340.00	310.00	24	ch300m #10
181	300.00	3.03	572.00	699.00	635.50	24	ch300m #11
182	300.00	10.22	572.00	699.00	635.50	24	ch300m #12
183	300.00	24.23	572.00	699.00	635.50	24	ch300m #13
184	300.00	47.31	572.00	699.00	635.50	24	ch300m #14
185	300.00	81.75	572.00	699.00	635.50	24	ch300m #15
186	300.00	3.03	1143.00	1397.00	1270.00	24	ch300m #16
187	300.00	10.22	1143.00	1397.00	1270.00	24	ch300m #17
188	300.00	24.23	1143.00	1397.00	1270.00	24	ch300m #18
189	300.00	47.31	1143.00	1397.00	1270.00	24	ch300m #19
190	300.00	81.75	1143.00	1397.00	1270.00	24	ch300m #20

Data set: CH 89-191 Fomblin Z-25 Base Fluidcontinued

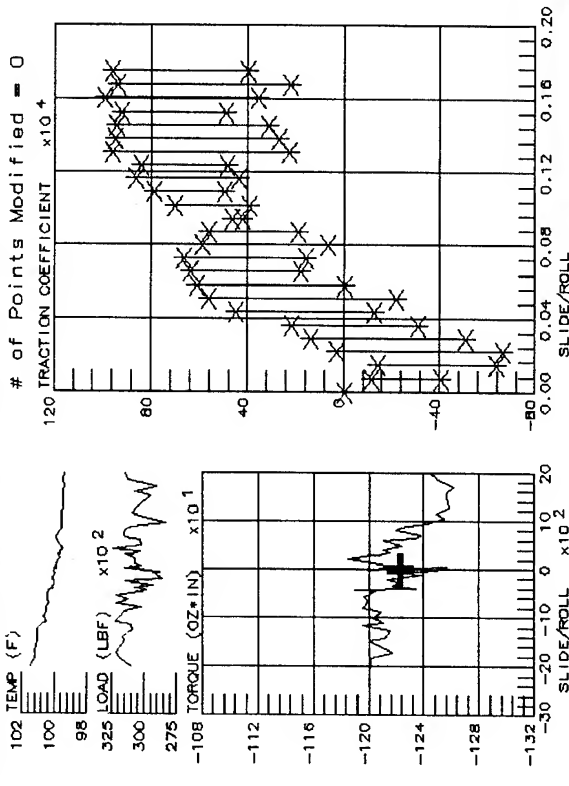
	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
191	80.00	3.03	2295.00	2805.00	2550.00	50	ch80h #1
192	80.00	10.22	2295.00	2805.00	2550.00	50	ch80h #2
193	80.00	24.23	2295.00	2805.00	2550.00	50	ch80h #3
194	80.00	47.31	2295.00	2805.00	2550.00	50	ch80h #4
195	80.00	81.75	2295.00	2805.00	2550.00	50	ch80h #5
196	80.00	3.03	4590.00	5610.00	5100.00	50	ch80h #6
197	80.00	10.22	4590.00	5610.00	5100.00	50	ch80h #7
198	80.00	24.23	4590.00	5610.00	5100.00	50	ch80h #8
199	80.00	47.31	4590.00	5610.00	5100.00	50	ch80h #9
200	80.00	81.75	4590.00	5610.00	5100.00	50	ch80h #10
201	80.00	3.03	9135.00	11165.00	10150.00	50	ch80h #11
202	80.00	10.22	9135.00	11165.00	10150.00	50	ch80h #12
203	80.00	24.23	9135.00	11165.00	10150.00	50	ch80h #13
204	80.00	47.31	9135.00	11165.00	10150.00	50	ch80h #14
205	80.00	81.75	9135.00	11165.00	10150.00	50	ch80h #15
206	80.00	3.03	137.00	167.00	152.00	24	ch80m #1
207	80.00	10.22	137.00	167.00	152.00	24	ch80m #2
208	80.00	24.23	137.00	167.00	152.00	24	ch80m #3
209	80.00	47.31	137.00	167.00	152.00	24	ch80m #4
210	80.00	81.75	137.00	167.00	152.00	24	ch80m #5
211	80.00	3.03	280.00	340.00	310.00	24	ch80m #6
212	80.00	10.22	280.00	340.00	310.00	24	ch80m #7
213	80.00	24.23	280.00	340.00	310.00	24	ch80m #8
214	80.00	47.31	280.00	340.00	310.00	24	ch80m #9
215	80.00	81.75	280.00	340.00	310.00	24	ch80m #10
216	80.00	3.03	572.00	699.00	635.50	24	ch80m #11
217	80.00	10.22	572.00	699.00	635.50	24	ch80m #12
218	80.00	24.23	572.00	699.00	635.50	24	ch80m #13
219	80.00	47.31	572.00	699.00	635.50	24	ch80m #14
220	80.00	81.75	572.00	699.00	635.50	24	ch80m #15
221	80.00	3.03	1143.00	1397.00	1270.00	24	ch80m #16
222	80.00	10.22	1143.00	1397.00	1270.00	24	ch80m #17
223	80.00	24.23	1143.00	1397.00	1270.00	24	ch80m #18
224	80.00	47.31	1143.00	1397.00	1270.00	24	ch80m #19
225	80.00	81.75	1143.00	1397.00	1270.00	24	ch80m #20

Summary of Select Data Files

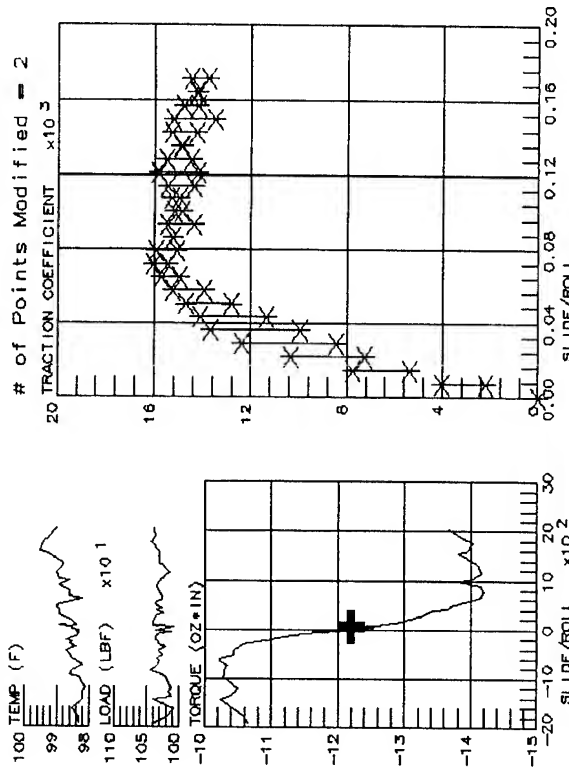
Filename	Temp	RollRpm	DataCurve #
ch1.dat	80.00	1270.00	222 223 224 225
ch2.dat	80.00	2550.00	192 193 194 195
ch3.dat	80.00	5100.00	197 198 199 200
ch4.dat	80.00	10150.00	202 203 204 205
ch5.dat	100.00	1270.00	32 33 34 35
ch6.dat	100.00	2550.00	2 3 4 5
ch7.dat	100.00	5100.00	7 8 9 10
ch8.dat	100.00	10150.00	12 13 14 15
ch9.dat	150.00	1270.00	67 68 69 70
ch10.dat	150.00	2550.00	37 38 39 40
ch11.dat	150.00	5100.00	42 43 44 45
ch12.dat	150.00	10150.00	47 48 49 50
ch13.dat	200.00	1270.00	102 103 104 105
ch14.dat	200.00	2550.00	72 73 74 75
ch15.dat	200.00	5100.00	77 78 79 80
ch16.dat	200.00	10150.00	82 83 84 85
ch17.dat	250.00	1270.00	137 138 139 140
ch18.dat	250.00	2550.00	107 108 109 110
ch19.dat	250.00	5100.00	112 113 114 115
ch20.dat	250.00	10150.00	117 118 119 120
ch21.dat	300.00	1270.00	187 188 189 190
ch22.dat	300.00	2550.00	157 158 159 160
ch23.dat	300.00	5100.00	162 163 164 165
ch24.dat	300.00	10150.00	167 168 169 170

TRACTION DATA

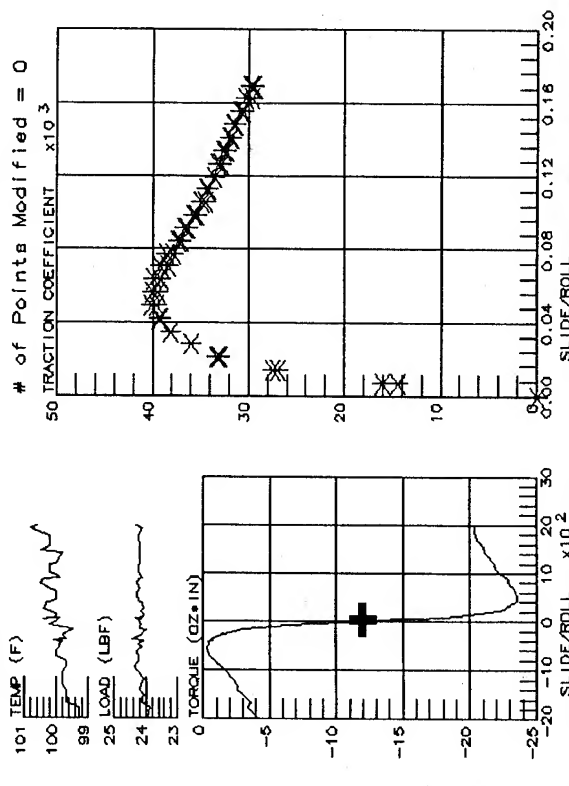
CH 89-191 Fomblin Z-25 Base Fluid #1
100F 4LBF 2550RPM #1
FILE: ch100h



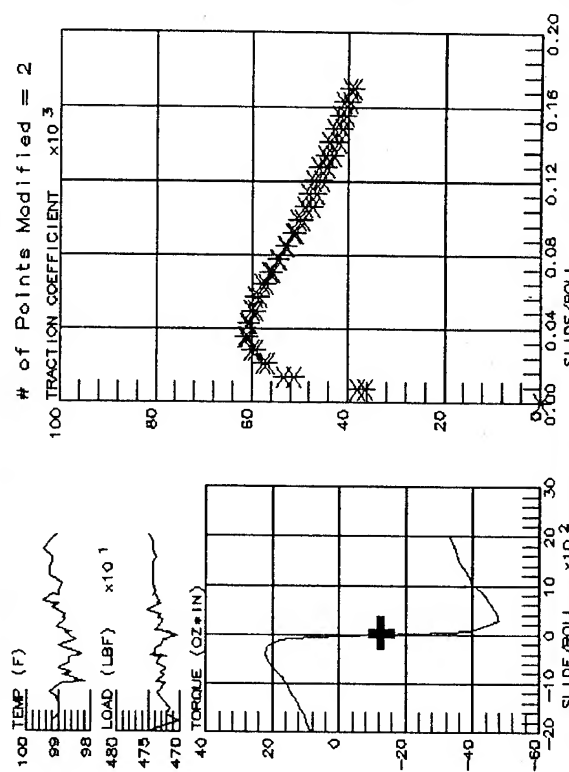
CH 89-191 Fomblin Z-25 Base Fluid #2
100F 11LBF 2550RPM #2
FILE: ch100h



CH 89-191 Fomblin Z-25 Base Fluid #3
100F 25LBF 2550RPM #3
FILE: ch100h

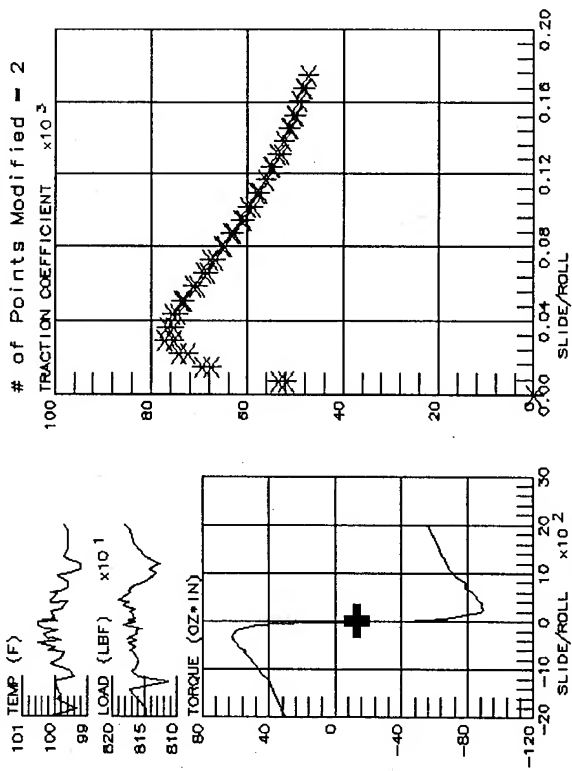


CH 89-191 Fomblin Z-25 Base Fluid #4
100F 48LBF 2550RPM #4
FILE: ch100h

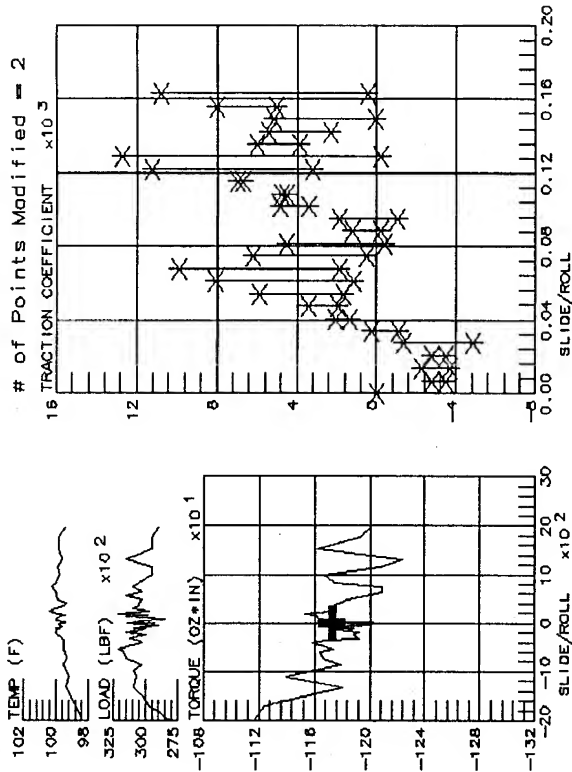


TRACTION DATA

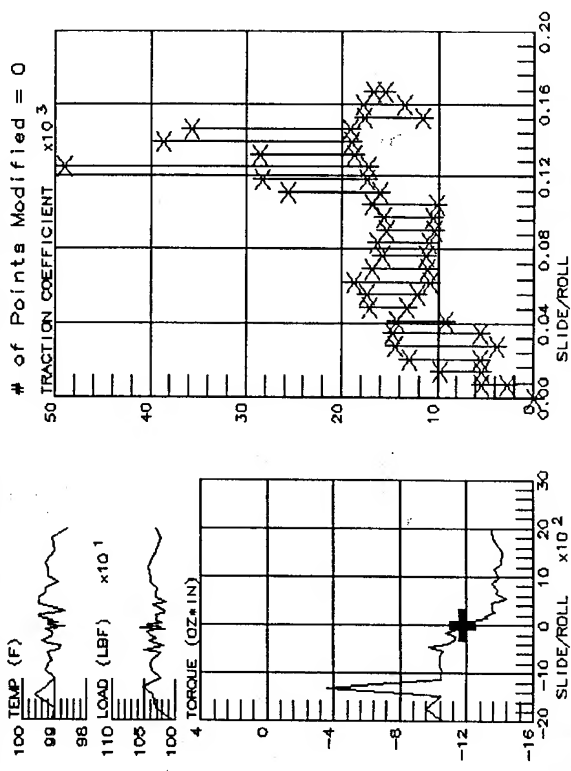
CH 89-191 Fomblin Z-25 Base Fluid #5
100F 82LBF 2550RPM #5 FILE: ch100h



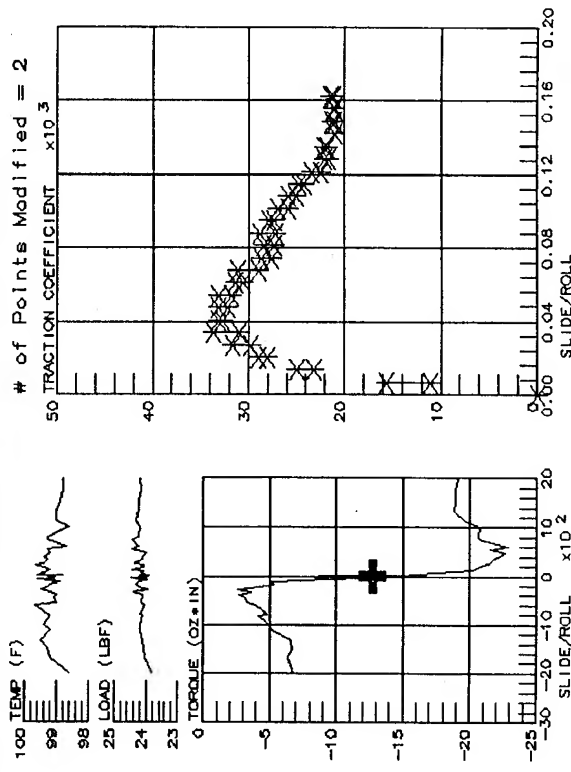
CH 89-191 Fomblin Z-25 Base Fluid #8
100F 4LBF 5100RPM #8 FILE: ch100h



CH 89-191 Fomblin Z-25 Base Fluid #7
100F 11LBF 5100RPM #7 FILE: ch100h

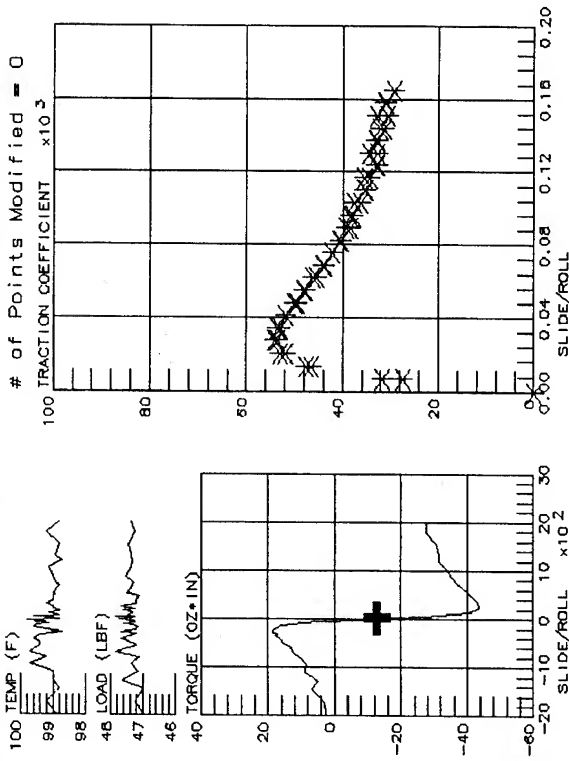


CH 89-191 Fomblin Z-25 Base Fluid #8
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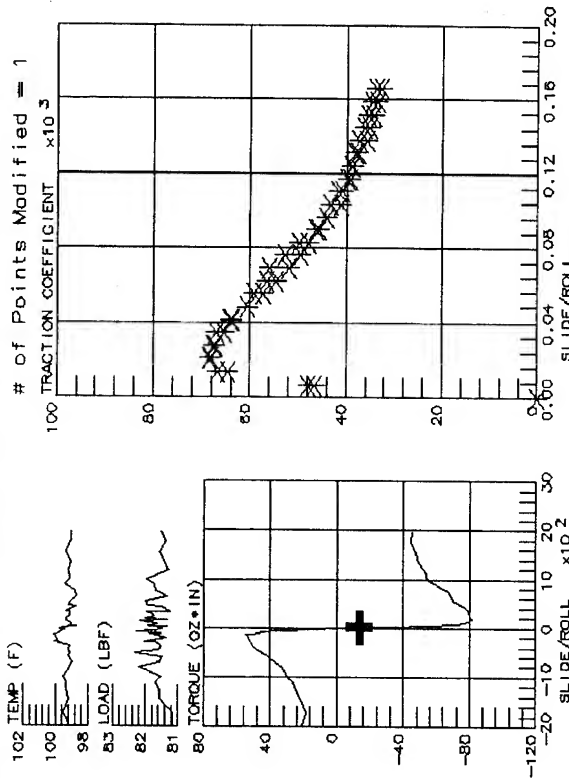


TRACTION DATA

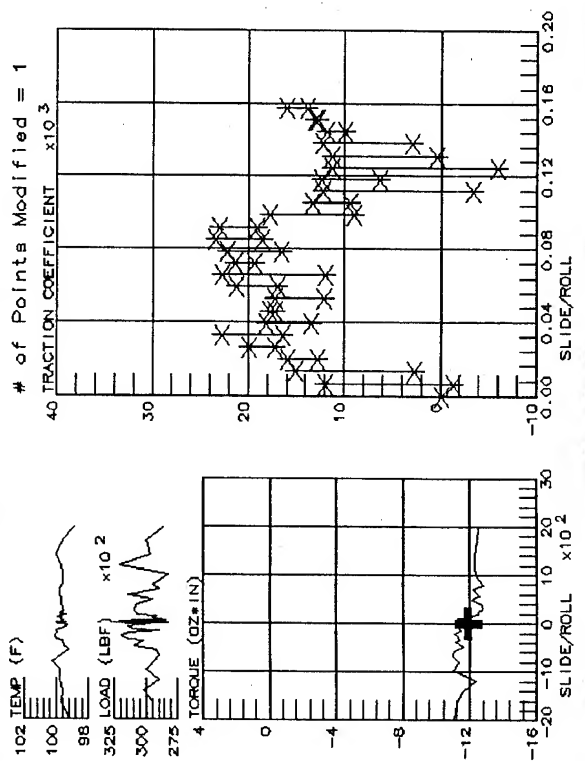
CH 89-191 Fomblin Z-25 Base Fluid #9
100F 48LBF 5100RPM #9 FILE: ch100h



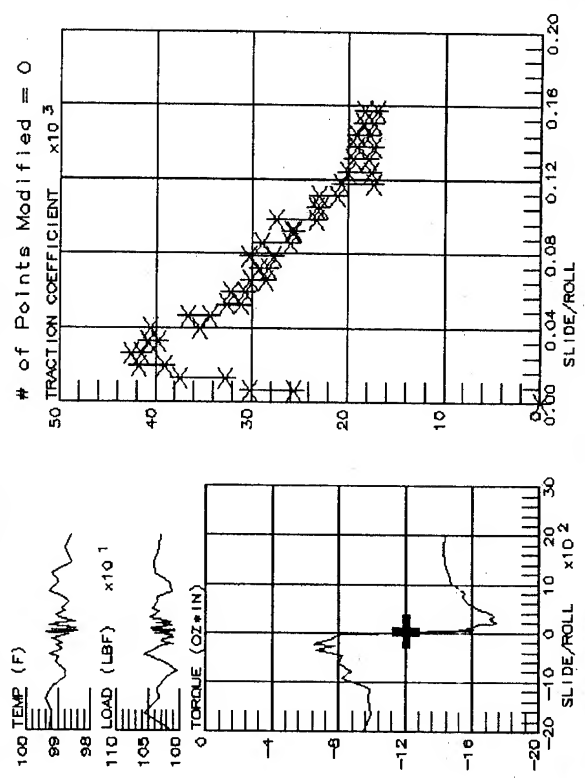
CH 89-191 Fomblin Z-25 Base Fluid #10
100F 82LBF 5100RPM #10 FILE: ch100h



CH 89-191 Fomblin Z-25 Base Fluid #11
100F 48LBF 10150RPM #11 FILE: ch100h



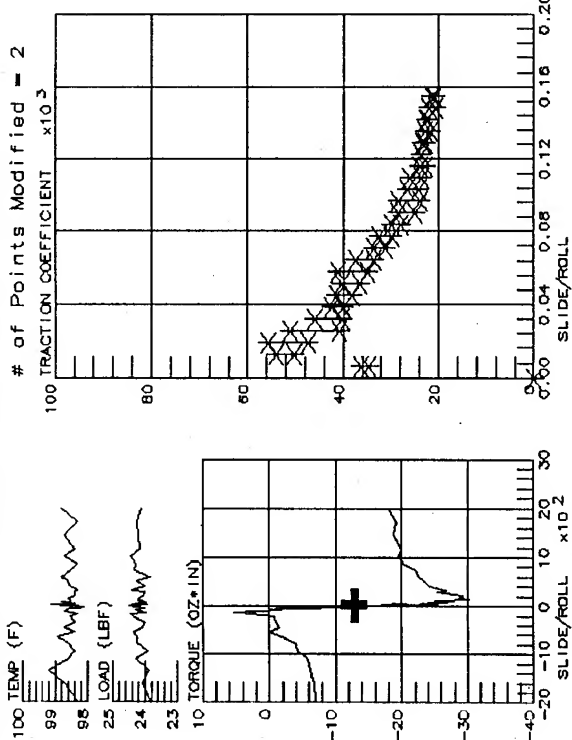
CH 89-191 Fomblin Z-25 Base Fluid #12
100F 11LBF 10150RPM #12 FILE: ch100h



TRACTION DATA

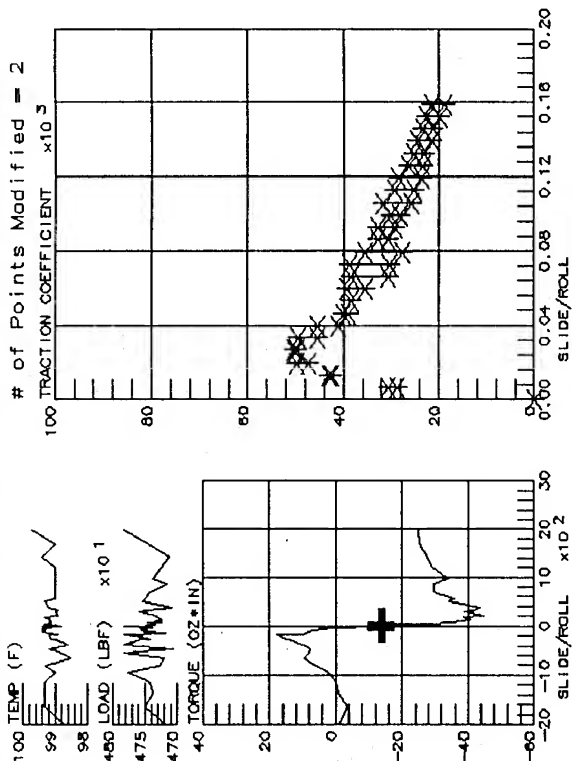
CH 89-191 Fomblin Z-25 Base Fluid #13
100F 25LBF 10150RPM #13 FILE: ch100h

of Points Modified = 2



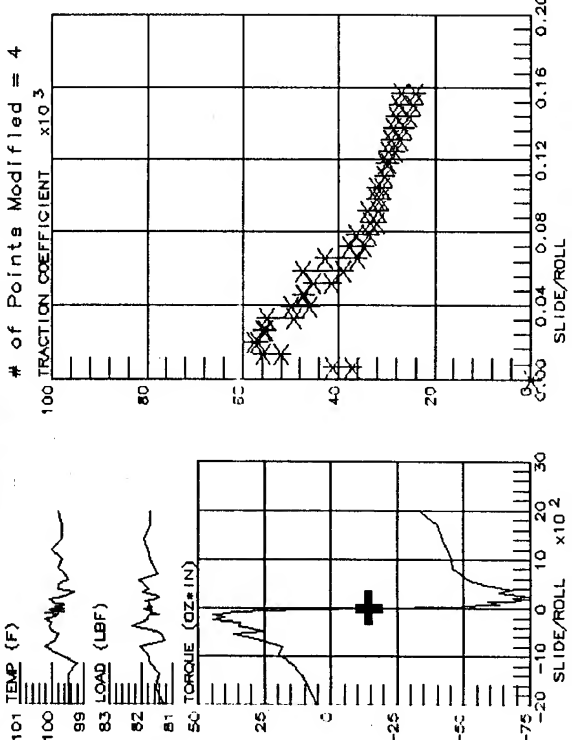
CH 89-191 Fomblin Z-25 Base Fluid #14
100F 48LBF 10150RPM #14 FILE: ch100h

of Points Modified = 2



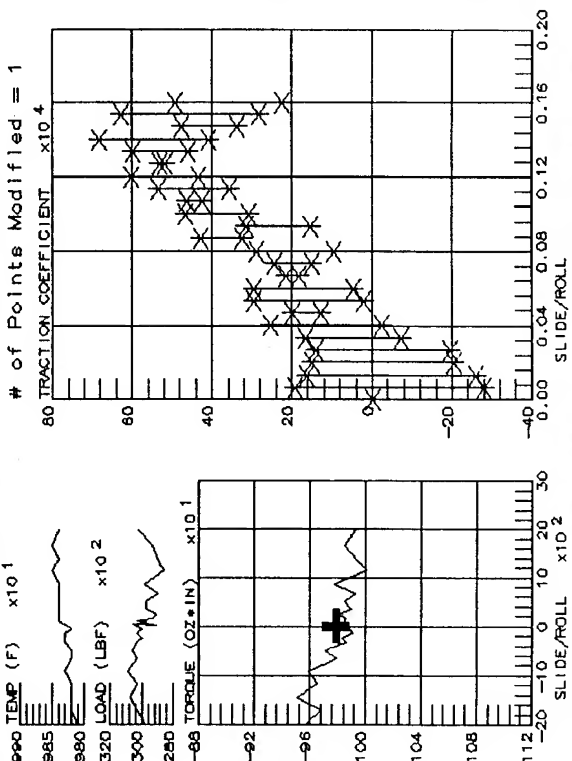
CH 89-191 Fomblin Z-25 Base Fluid #15
100F 82LBF 10150RPM #15 FILE: ch100h

of Points Modified = 4



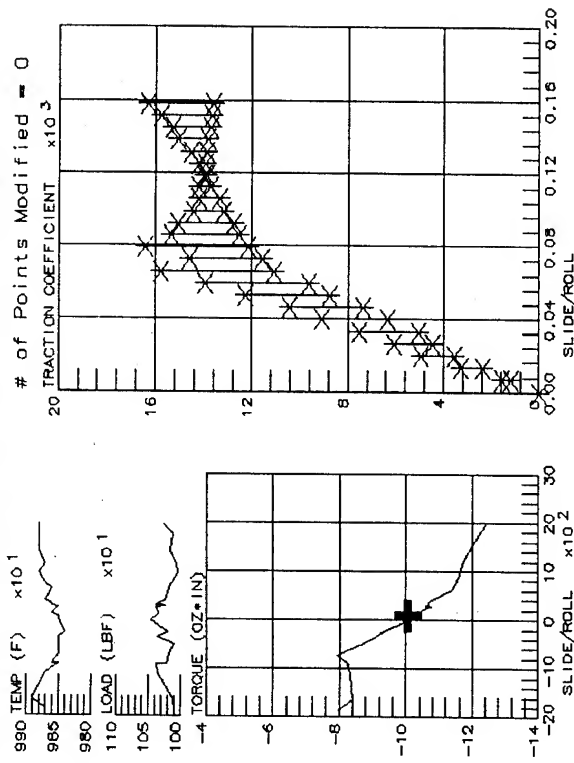
CH 89-191 Fomblin Z-25 Base Fluid #16
100F 41LBF 152RPM #1 FILE: ch100m

of Points Modified = 1

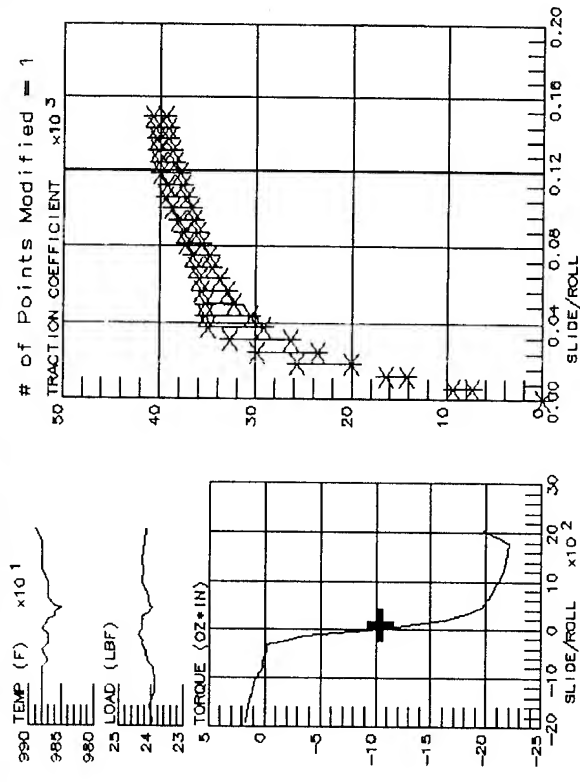


TRACTION DATA

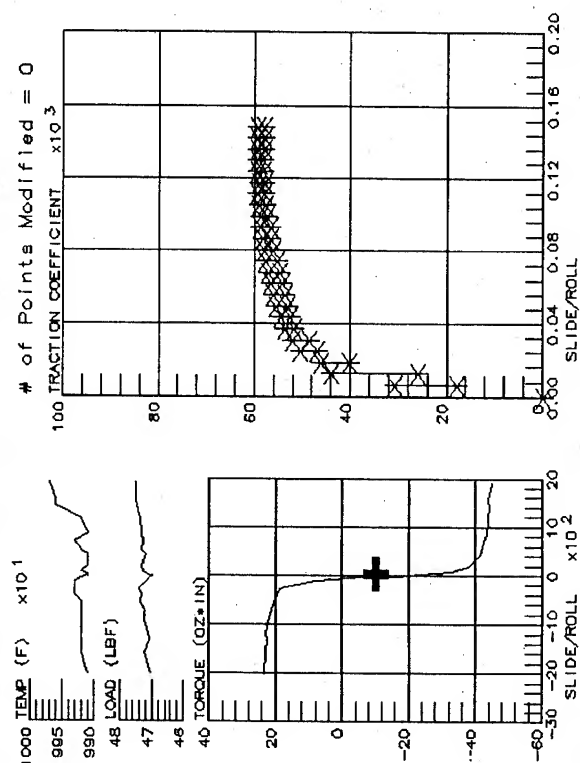
CH 89-191 Foamblin Z-25 Base Fluid #17
100F 11LBF 152RPM #2 FILE: ch100m



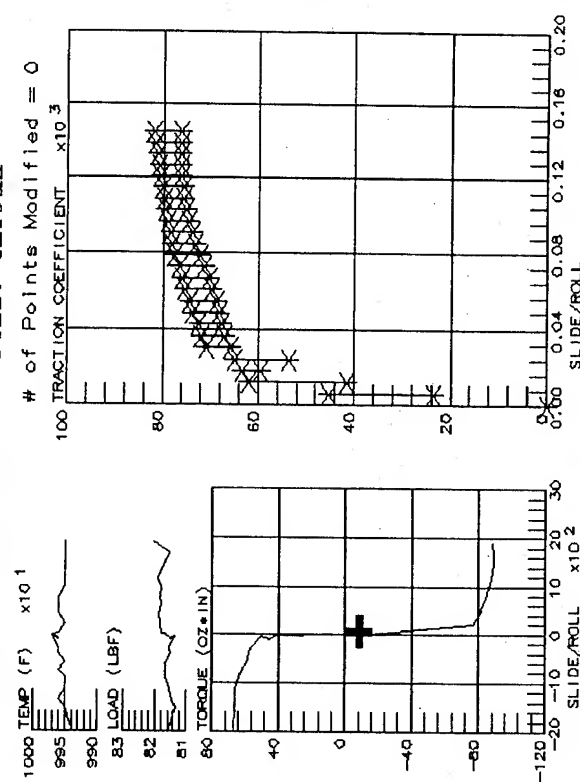
CH 89-191 Foamblin Z-25 Base Fluid #18
100F 25LBF 152RPM #3 FILE: ch100m



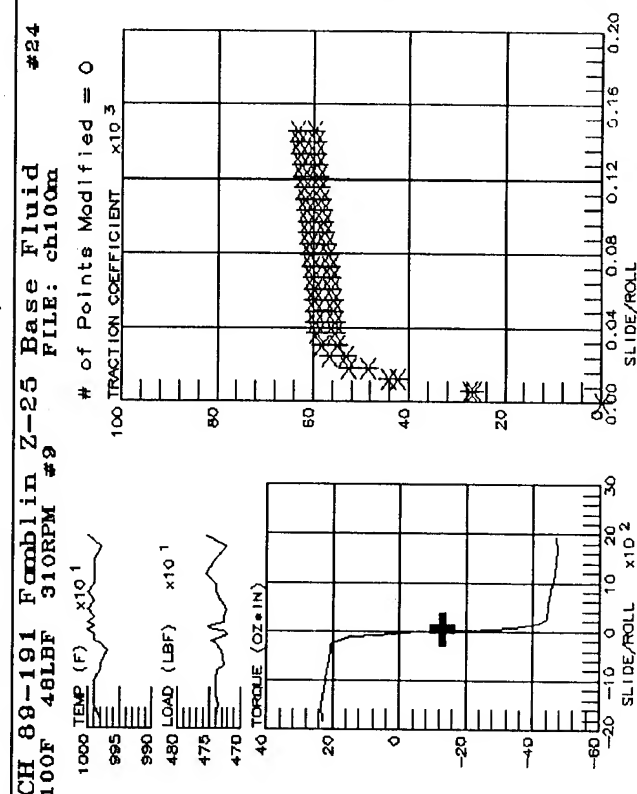
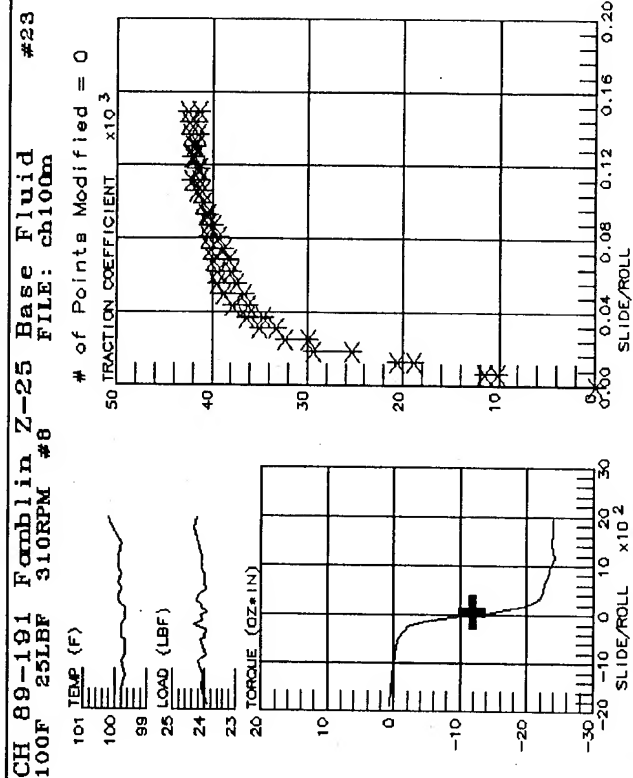
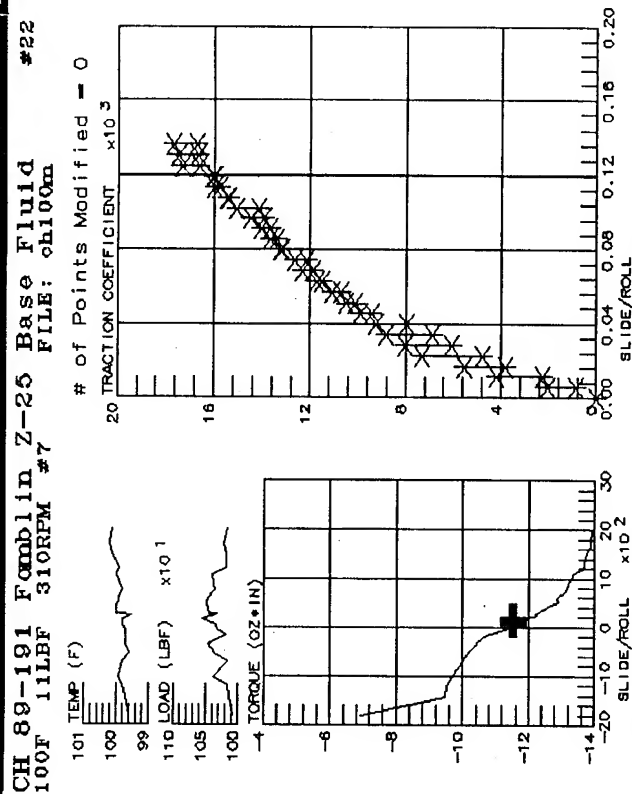
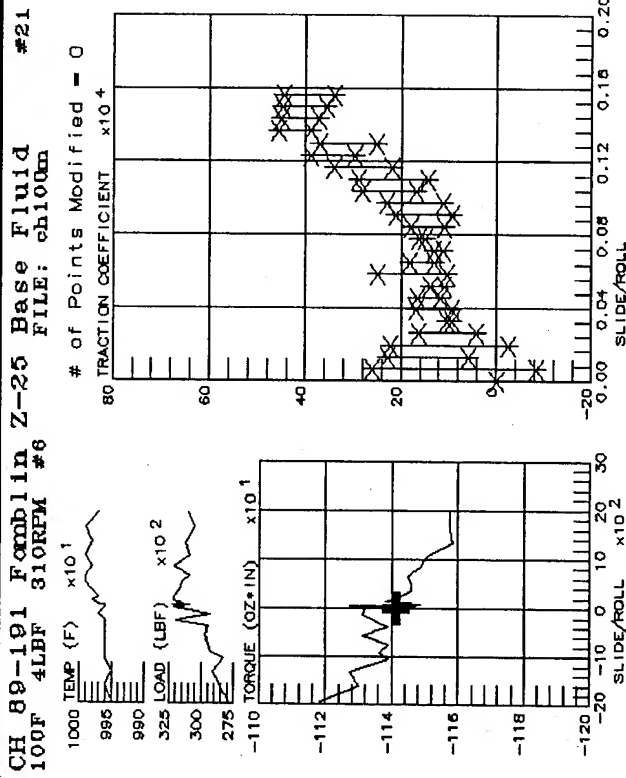
CH 89-191 Foamblin Z-25 Base Fluid #19
100F 48LBF 152RPM #4 FILE: ch100m



CH 89-191 Foamblin Z-25 Base Fluid #20
100F 82LBF 152RPM #5 FILE: ch100m

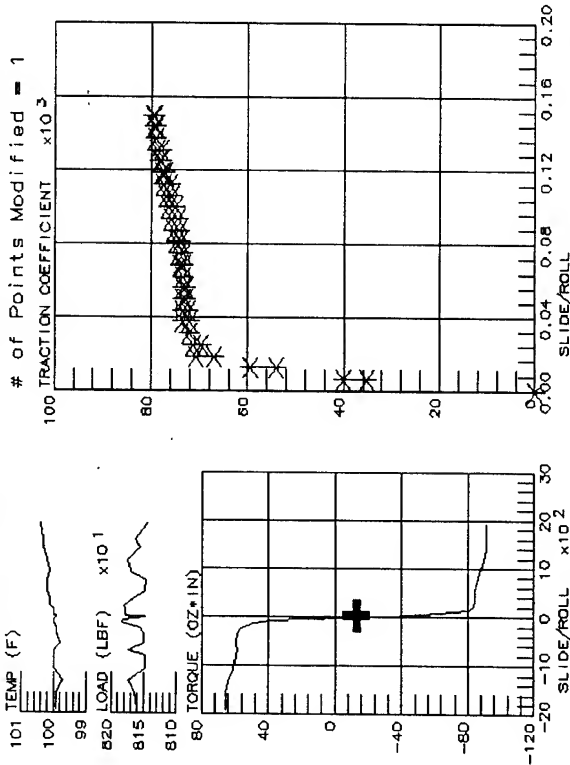


TRACTION DATA

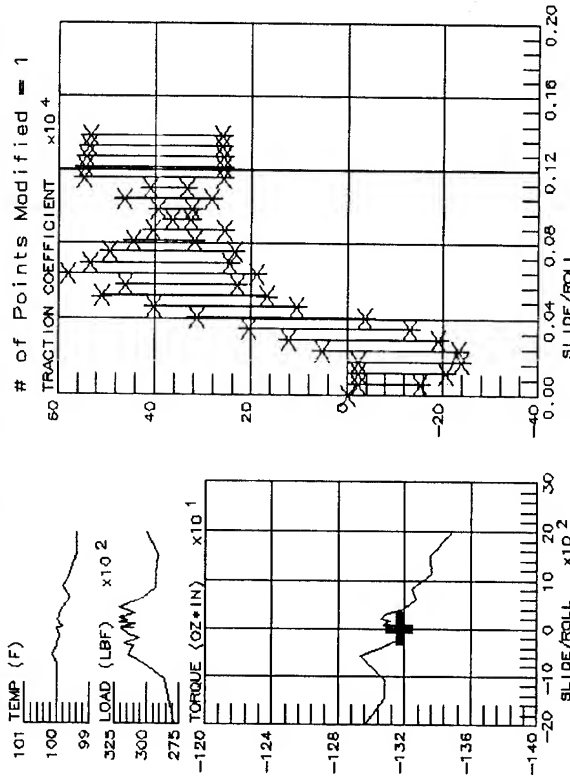


TRACTION DATA

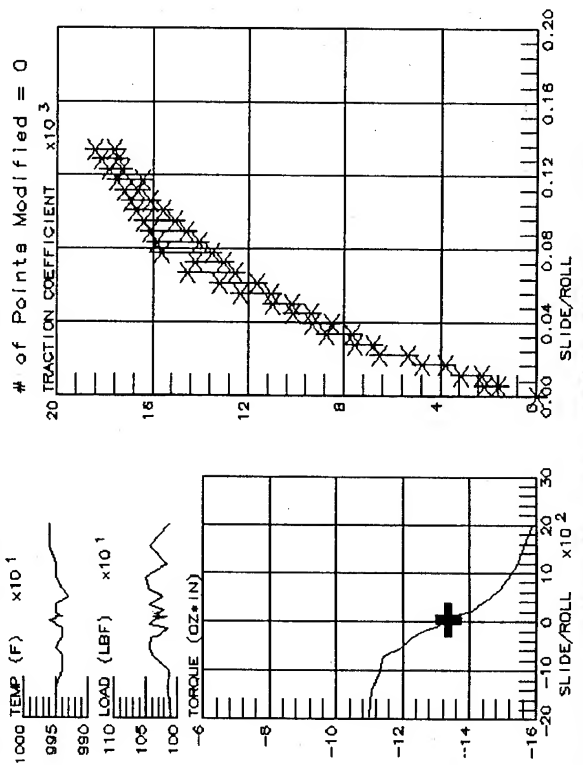
CH 89-191 Fomblin Z-25 Base Fluid #25
100F 82LBF 310RPM #10 FILE: ch100m



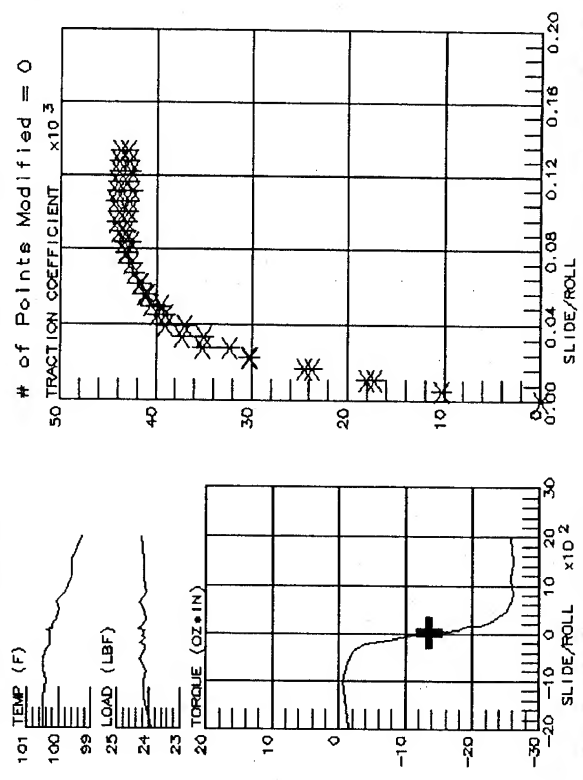
CH 89-191 Fomblin Z-25 Base Fluid #26
100F 4LBF 636RPM #11 FILE: ch100m



CH 89-191 Fomblin Z-25 Base Fluid #27
100F 11LBF 636RPM #12 FILE: ch100m

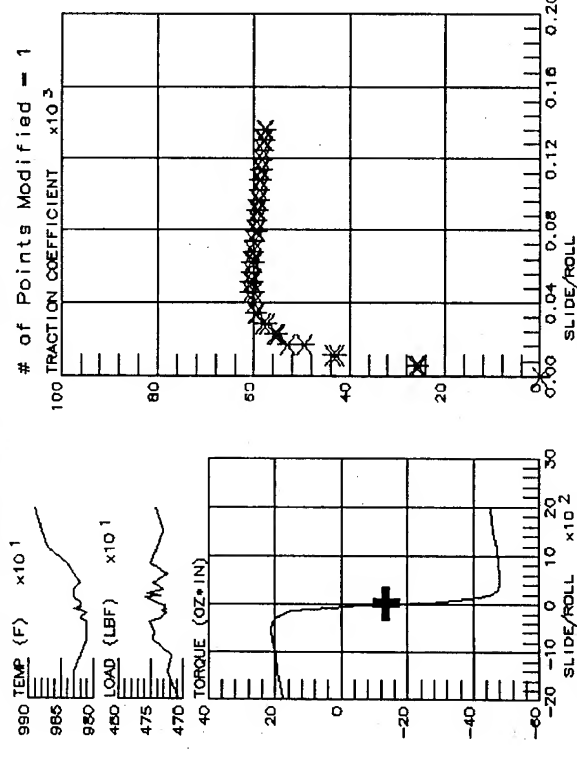


CH 89-191 Fomblin Z-25 Base Fluid #28
100F 25LBF 636RPM #13 FILE: ch100m

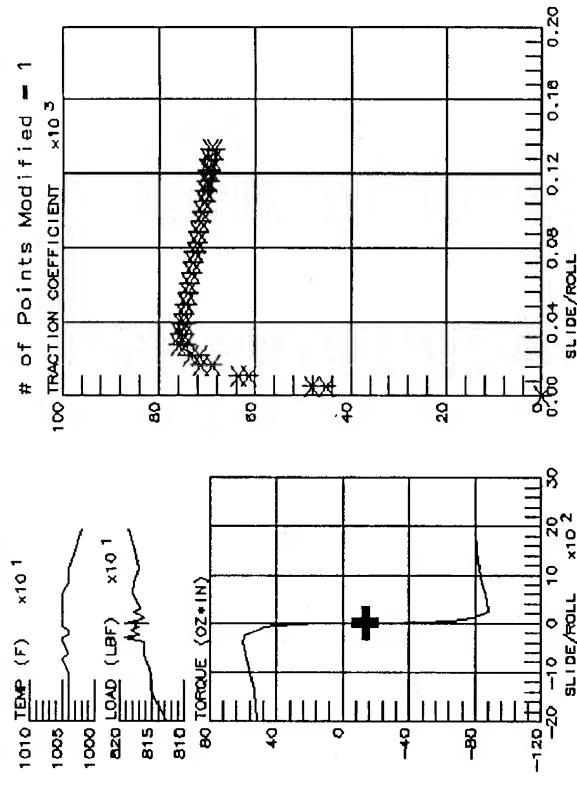


TRACTION DATA

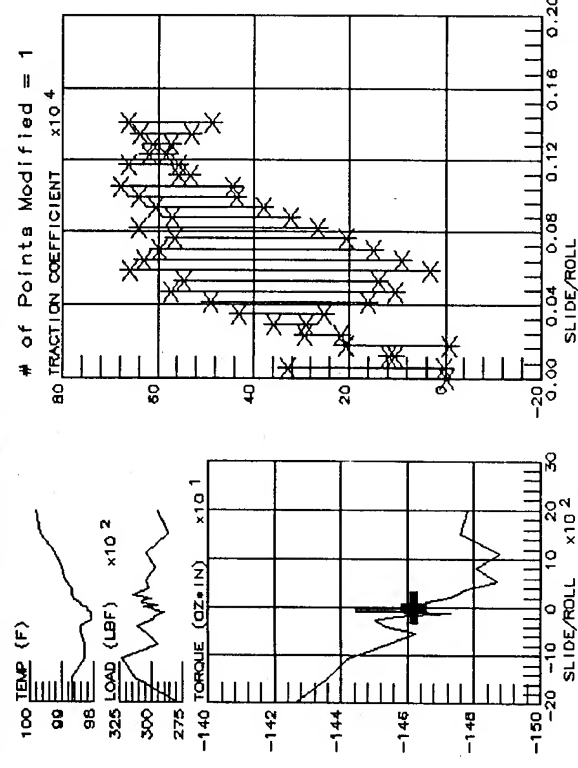
CH 89-191 Fomblin Z-25 Base Fluid #28
100F 48LBF 636RPM #14 FILE: ch100m



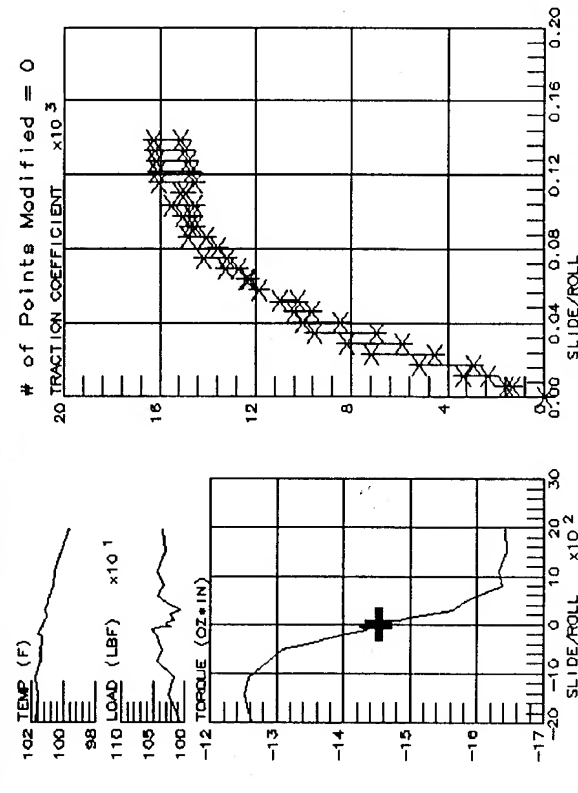
CH 89-191 Fomblin Z-25 Base Fluid #30
100F 82LBF 636RPM #15 FILE: ch100m



CH 89-191 Fomblin Z-25 Base Fluid #31
100F 4LBF 1270RPM #16 FILE: ch100m

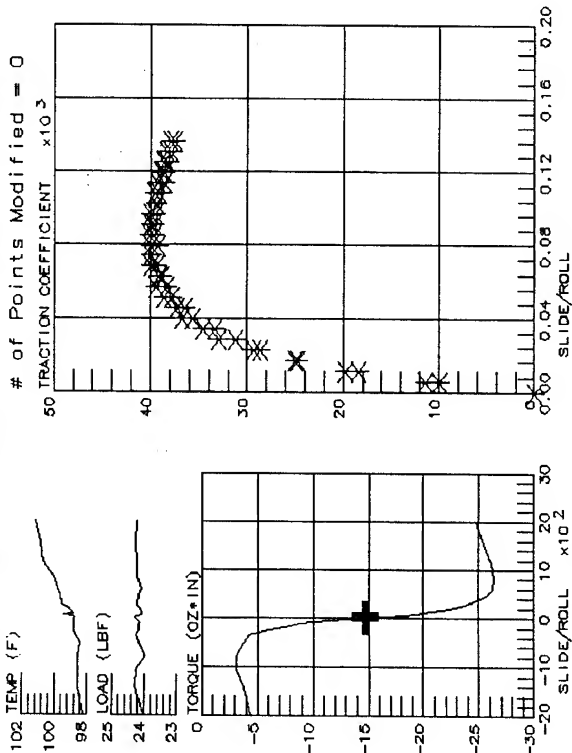


CH 89-191 Fomblin Z-25 Base Fluid #32
100F 11LBF 1270RPM #17 FILE: ch100m

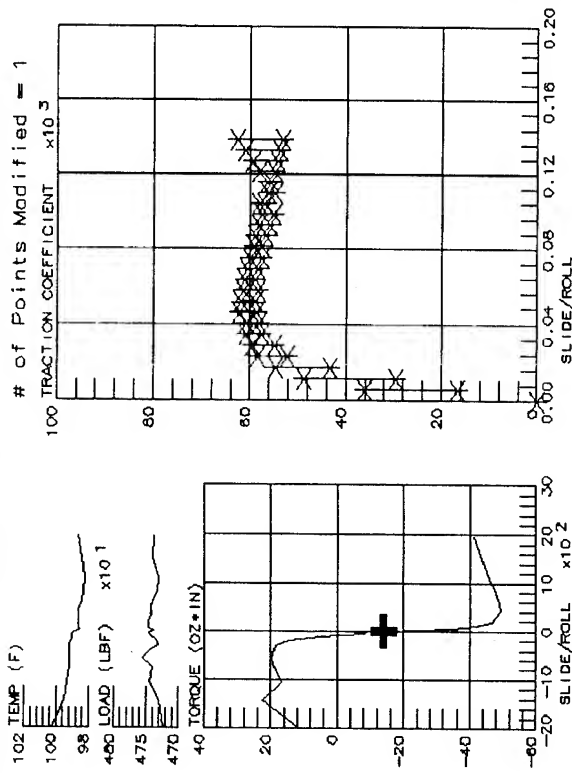


TRACTION DATA

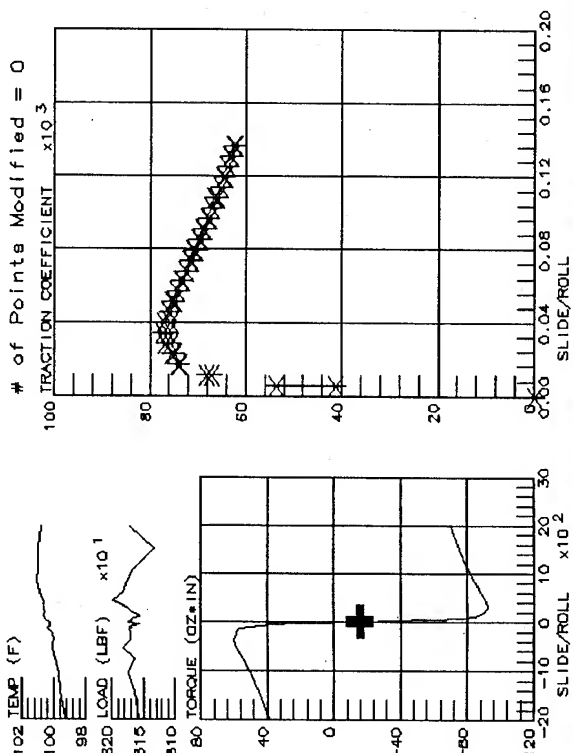
CH 89-191 Fomblin Z-25 Base Fluid #33
100F 25LBF 1270RPM #18 FILE: ch100m



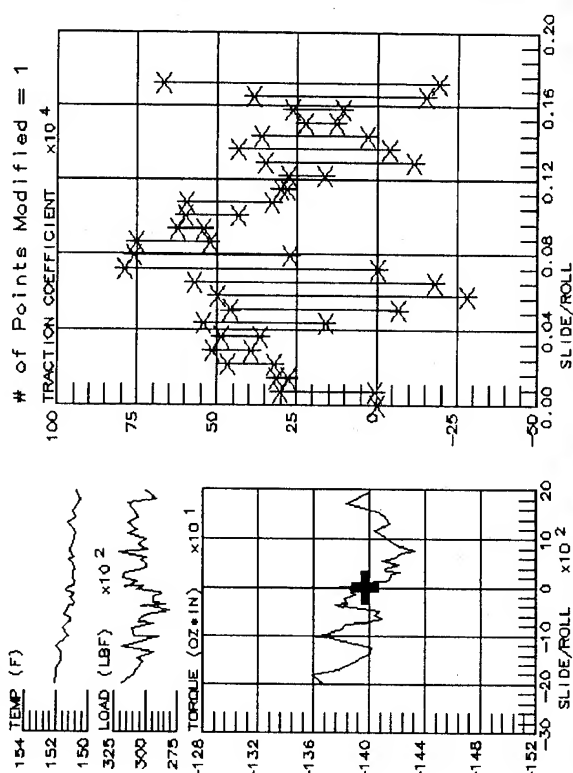
CH 89-191 Fomblin Z-25 Base Fluid #34
100F 48LBF 1270RPM #19 FILE: ch100m



CH 89-191 Fomblin Z-25 Base Fluid #35
100F 82LBF 1270RPM #20 FILE: ch100m



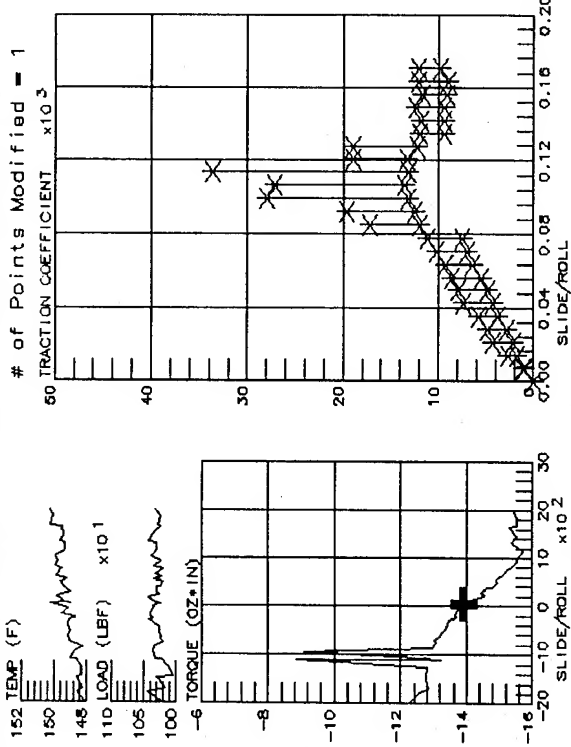
CH 89-191 Fomblin Z-25 Base Fluid #36
150F 4LBF 2550RPM #1 FILE: ch150h



TRACTION DATA

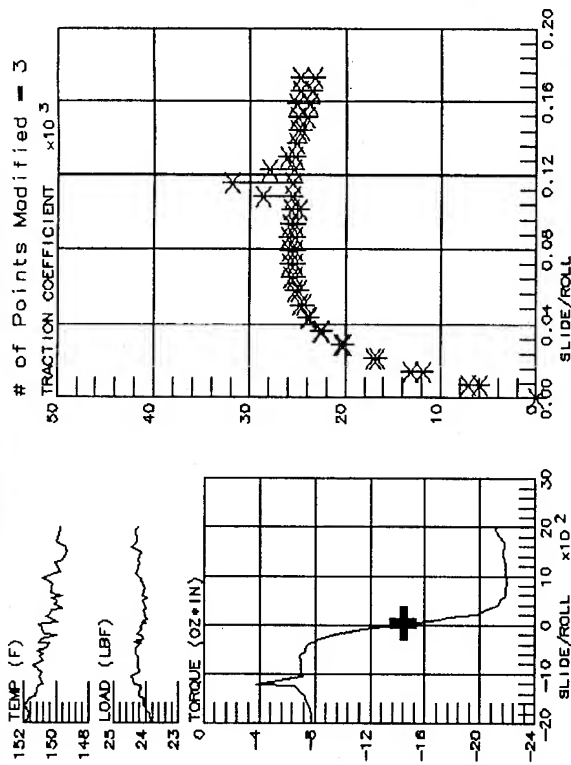
CH 89-191 Fomblin Z-25 Base Fluid #37
150F 11LBF 2550RPM #2 FILE: ch150h

of Points Modified = 1



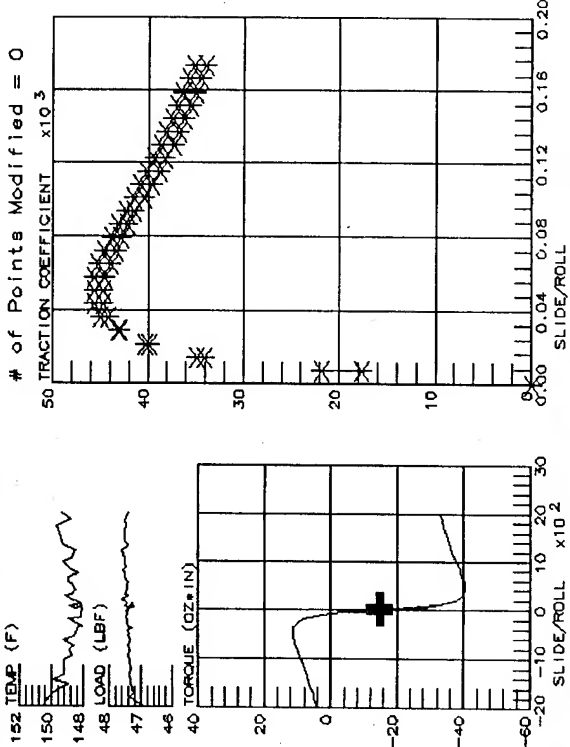
CH 89-191 Fomblin Z-25 Base Fluid #38
150F 25LBF 2550RPM #3 FILE: ch150h

of Points Modified = 3



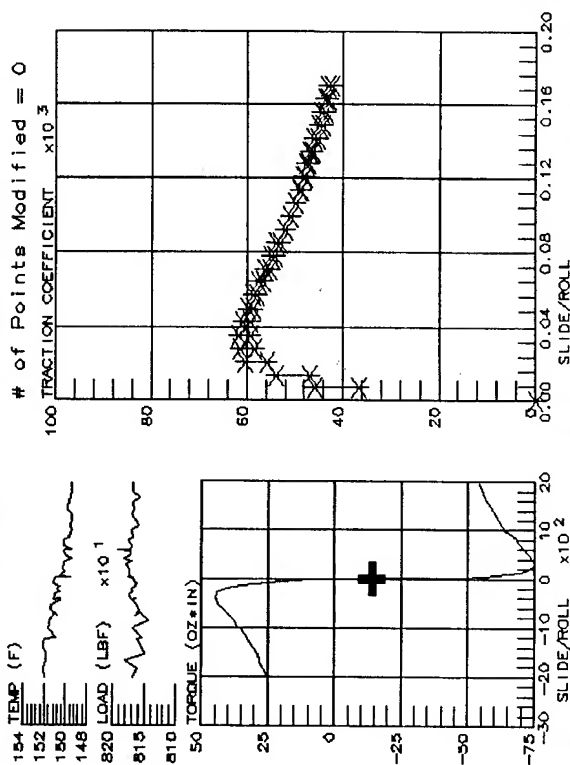
CH 89-191 Fomblin Z-25 Base Fluid #39
150F 48LBF 2550RPM #4 FILE: ch150h

of Points Modified = 0



CH 89-191 Fomblin Z-25 Base Fluid #40
150F 82LBF 2550RPM #5 FILE: ch150h

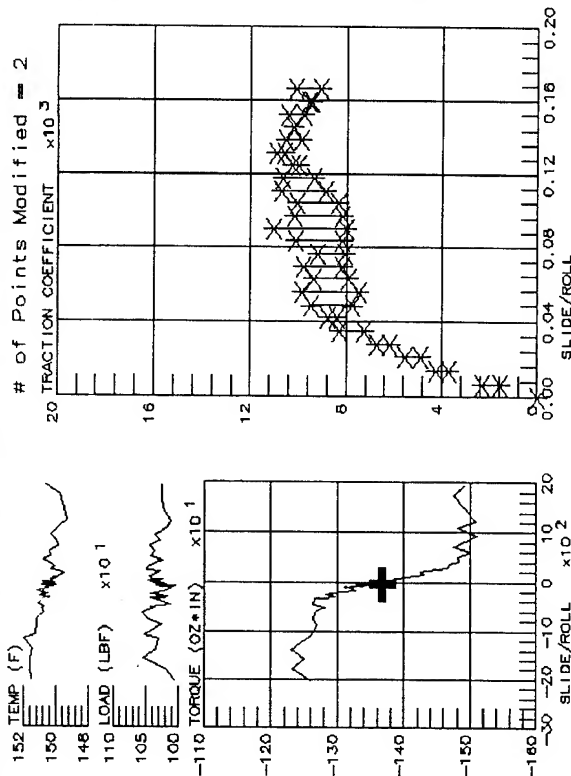
of Points Modified = 0



[illegible]

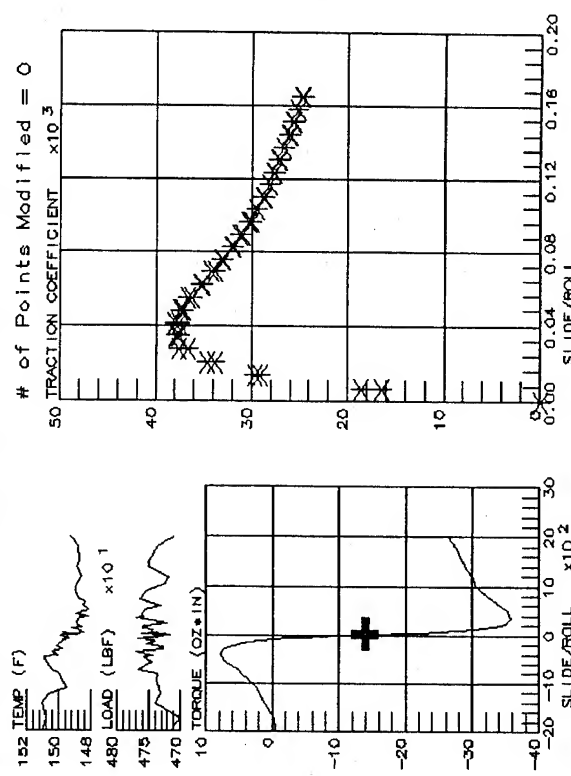
CH 89-191 Fomblin Z-25 Base Fluid #42
150F 11LEF 5100RPM #7 FILE: ch150h

of Points Modified = 2



CH 89-191	Fomblin Z-25	Base Fluid	#44
150F	5100RPM #9	FILE: ch150b	
48LF			

of Points Modified = 0

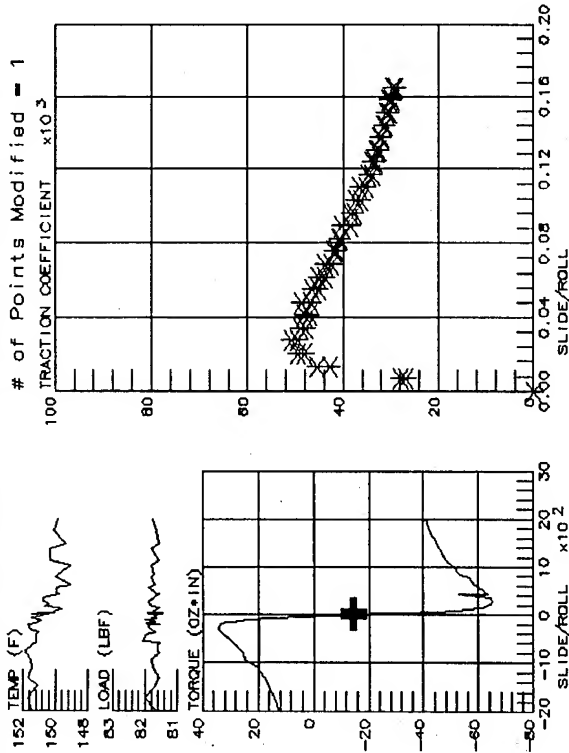


TRACTION DATA

CH 89-191 Formblin Z-25 Base Fluid
150F 82LBF 5100RPM #10 FILE: ch150h

#45

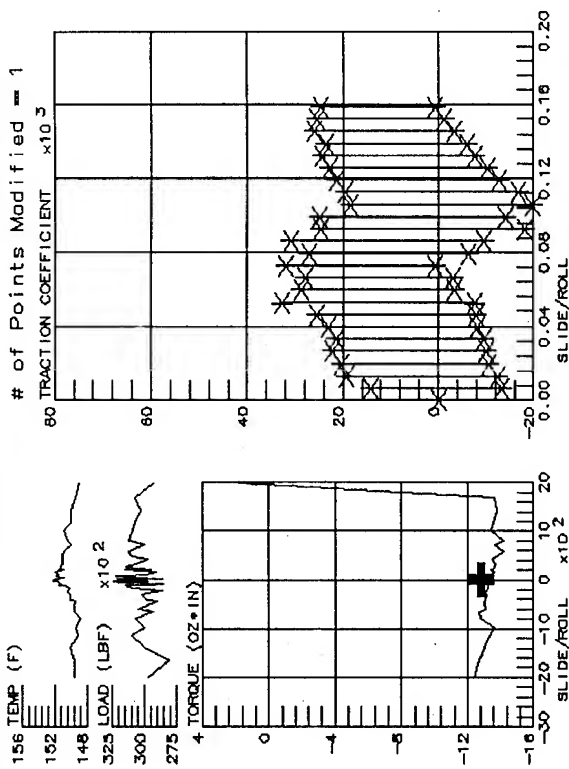
of Points Modified - 1



CH 89-191 Fomblin Z-25 Base Fluid
150F 4LEF 10150RPM #11 FILE: oh150h #48

948

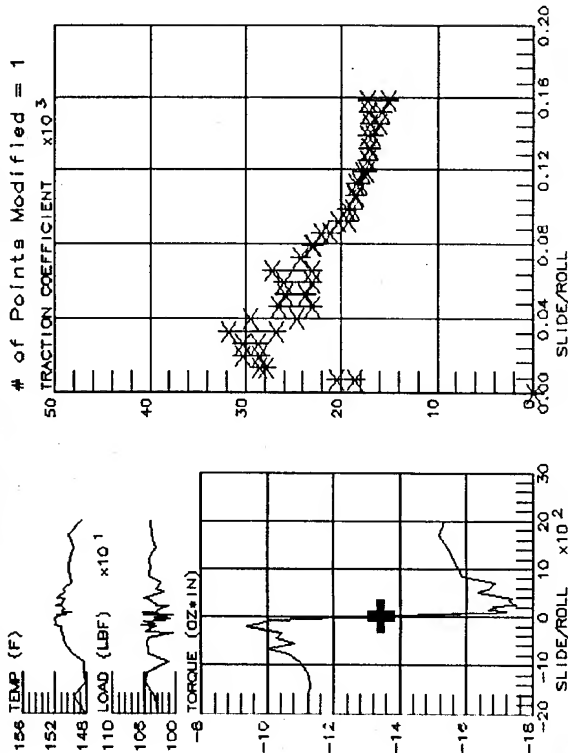
of Points Modified = 1



CH 89-191 Fomblin Z-25 Base Fluid
150F 11LBF 10150RPM #12 FILE: ch150h

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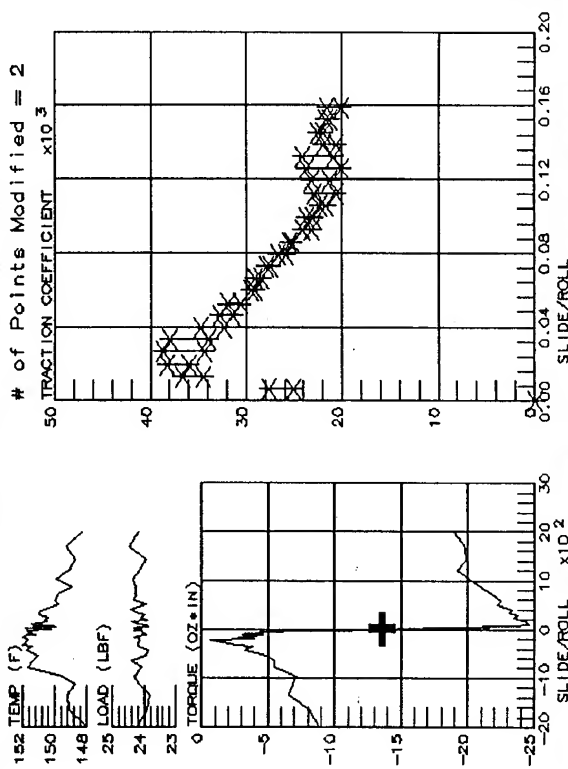
of Points Modified = 1



CH 89-191 Fomblin Z-25 Base Fluid
150F 25LBF 10150RPM #13 FILE: ch150b

#48

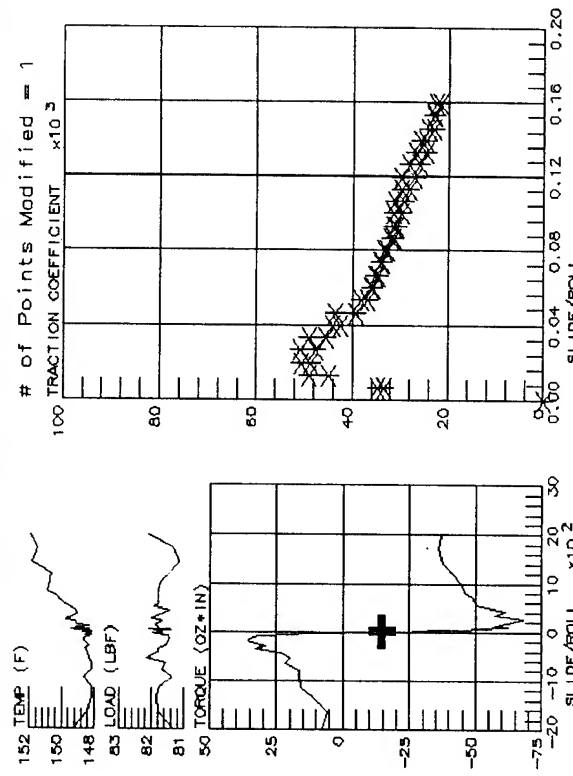
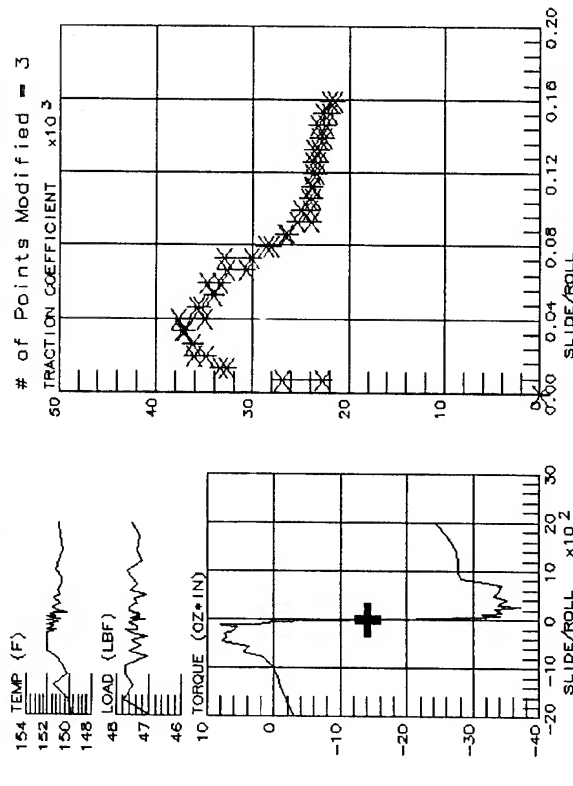
of Points Modified = 2



TRACTION DATA

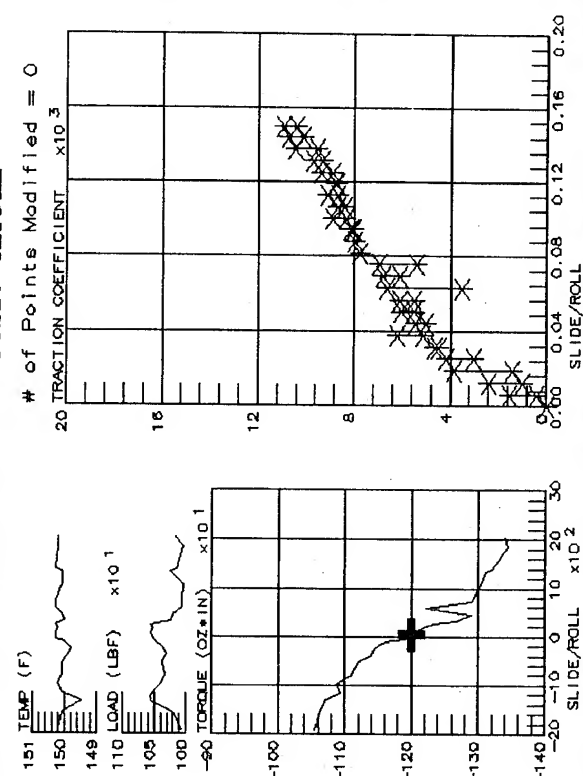
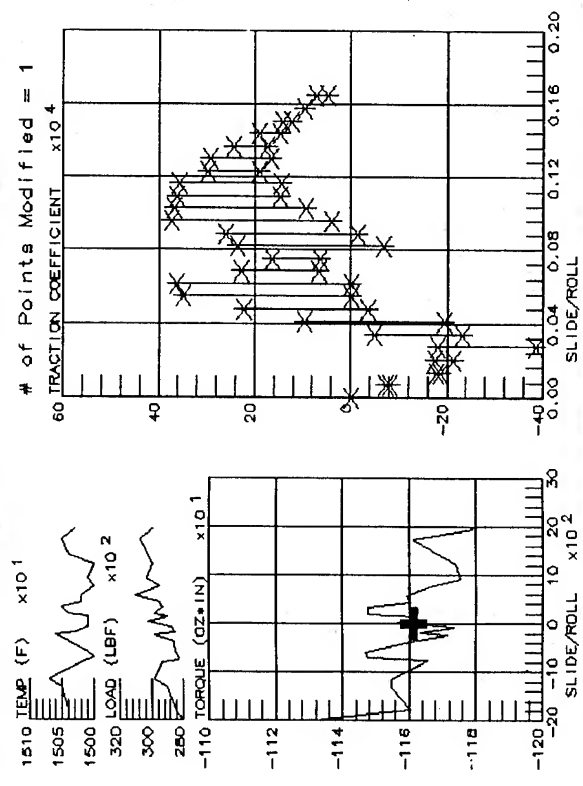
CH 89-191 Fomblin Z-25 Base Fluid
150F 48LBF 10150RPM #14 FILE: ch150h

CH 89-191 Fomblin Z-25 Base Fluid
150F 82LBF 10150RPM #15 FILE: ch150h



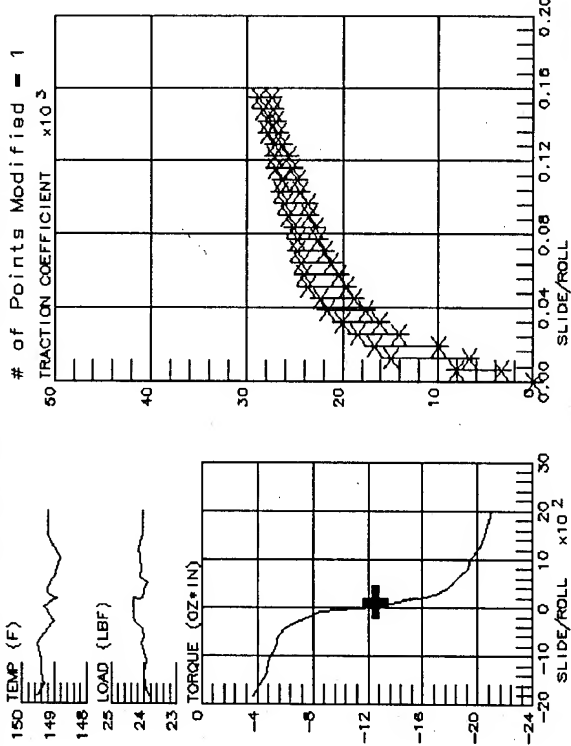
CH 89-191 Fomblin Z-25 Base Fluid
150F 48LBF 152RPM #1 FILE: ch150m

CH 89-191 Fomblin Z-25 Base Fluid
150F 11LBF 152RPM #2 FILE: ch150m

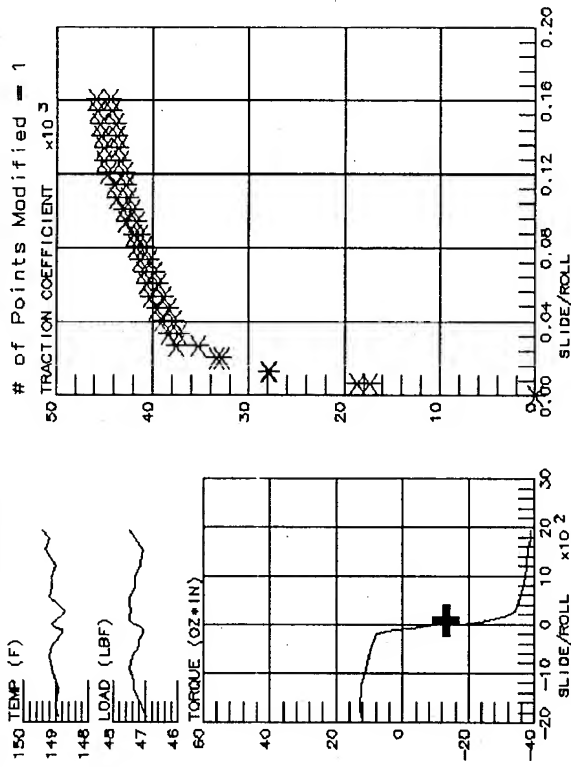


TRACTION DATA

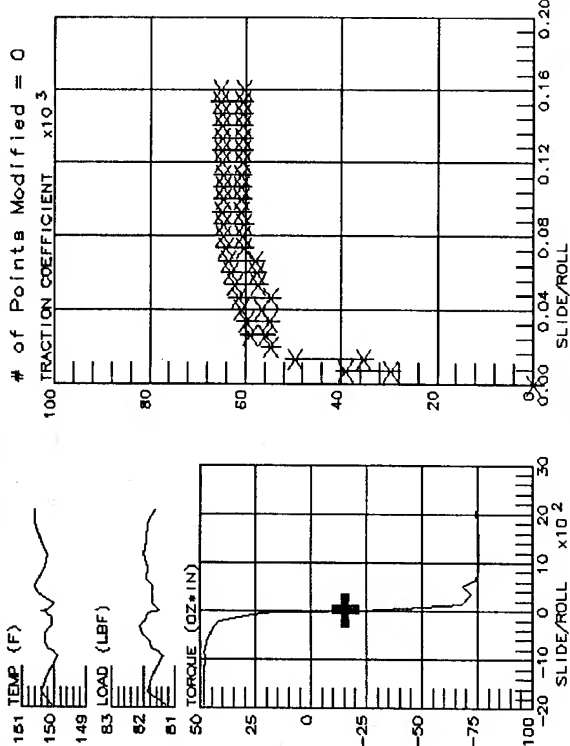
CH 89-191 Fomblin Z-25 Base Fluid #53
150F 25LBF 152RPM #3 FILE: ch150m



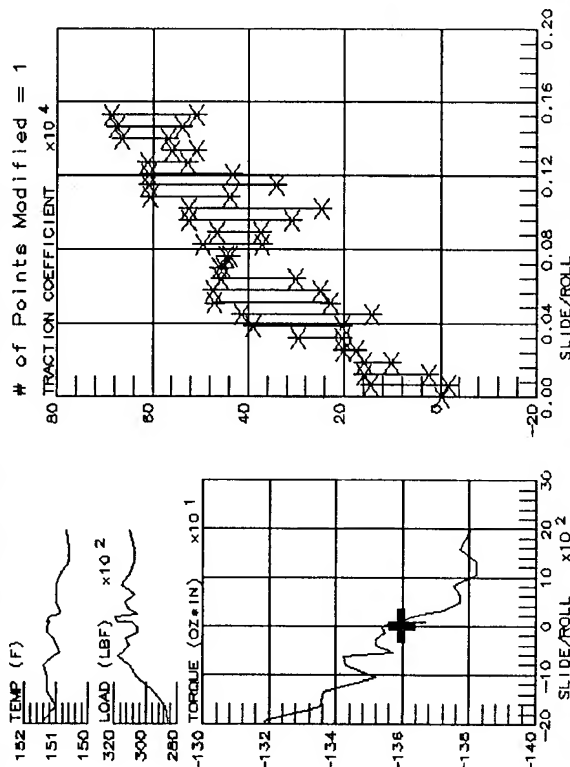
CH 89-191 Fomblin Z-25 Base Fluid #54
150F 48LBF 152RPM #4 FILE: ch150m



CH 89-191 Fomblin Z-25 Base Fluid #55
150F 82LBF 152RPM #5 FILE: ch150m

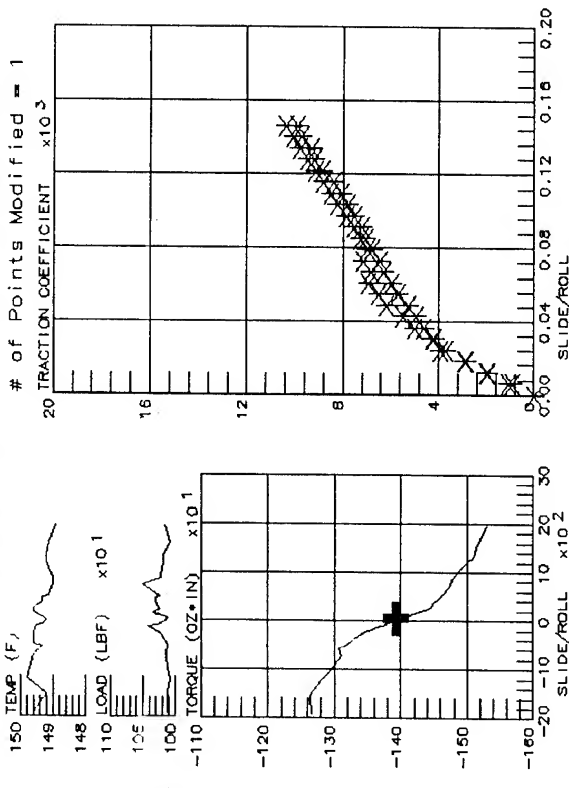


CH 89-191 Fomblin Z-25 Base Fluid #56
150F 41LBF 310RPM #6 FILE: ch150m

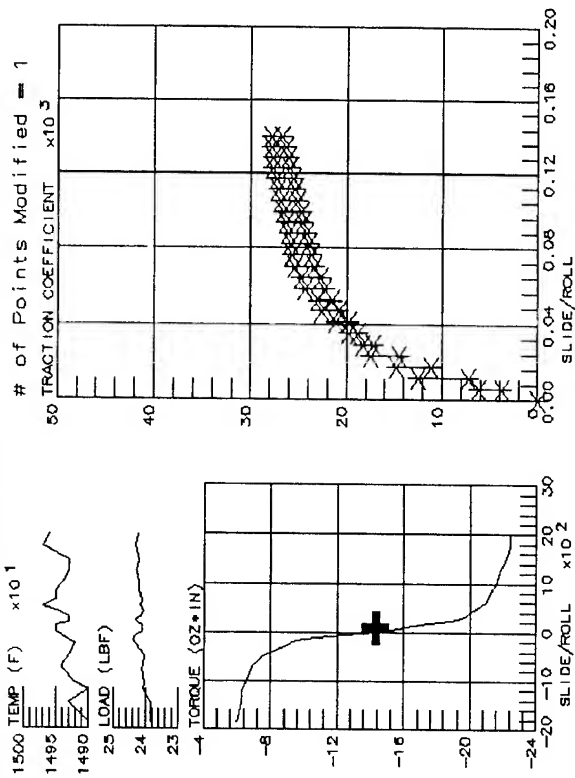


TRACTION DATA

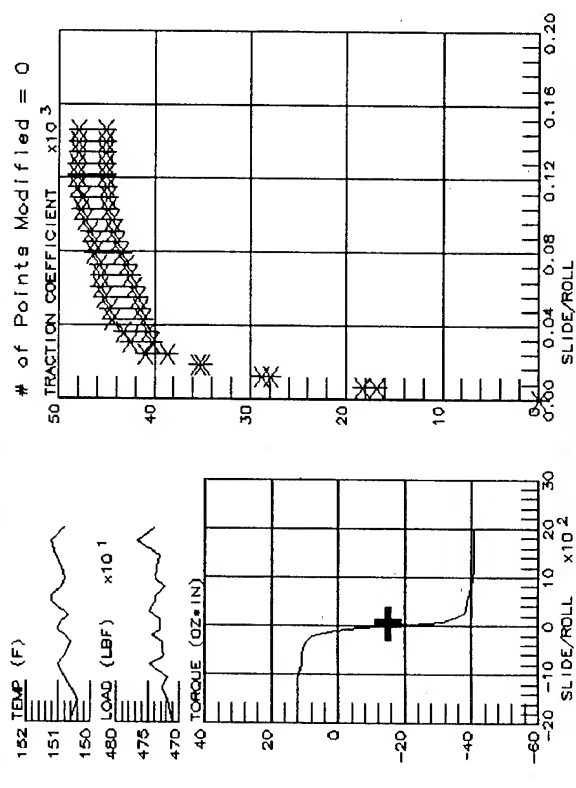
CH 89-191 Fomblin Z-25 Base Fluid #57
150F 111BF 310RPM #7 FILE: ch150m



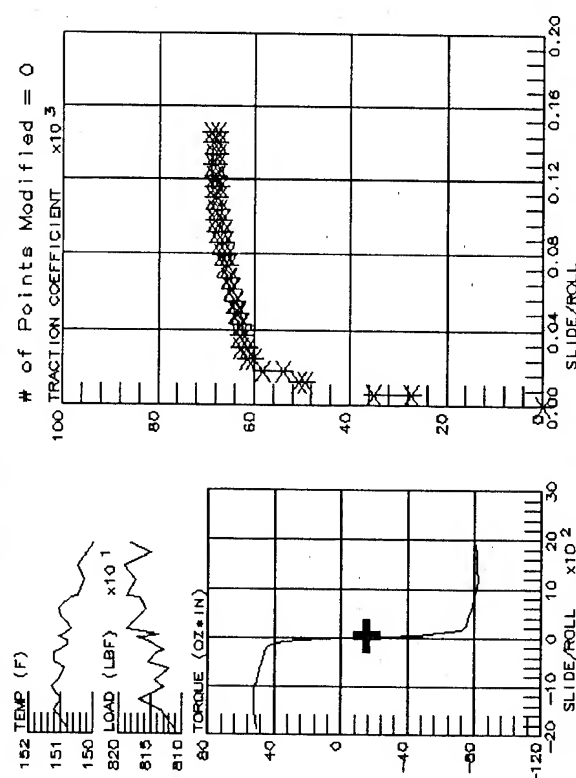
CH 89-191 Fomblin Z-25 Base Fluid #58
150F 251BF 310RPM #8 FILE: ch150m



CH 89-191 Fomblin Z-25 Base Fluid #59
150F 481BF 310RPM #9 FILE: ch150m

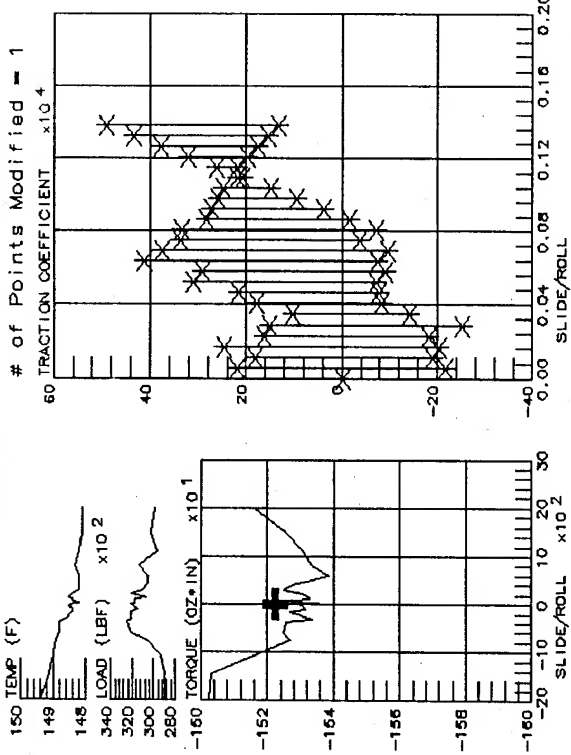


CH 89-191 Fomblin Z-25 Base Fluid #60
150F 821BF 310RPM #10 FILE: ch150m

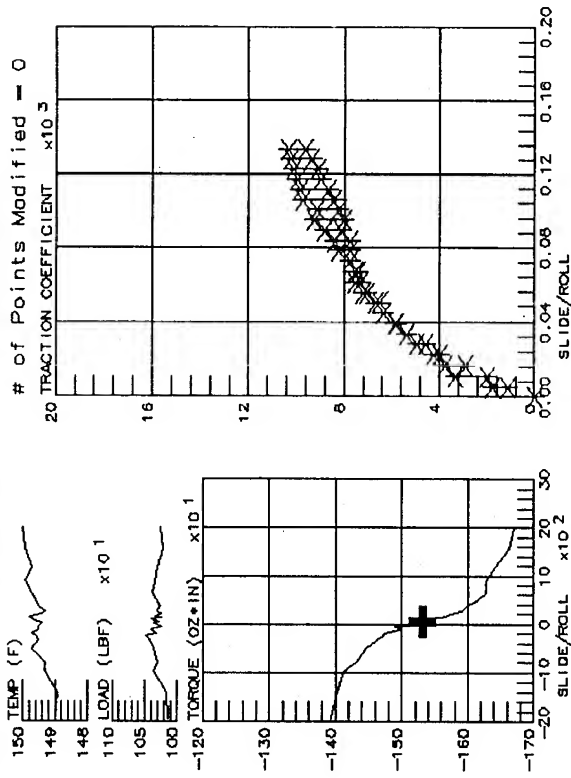


TRACTION DATA

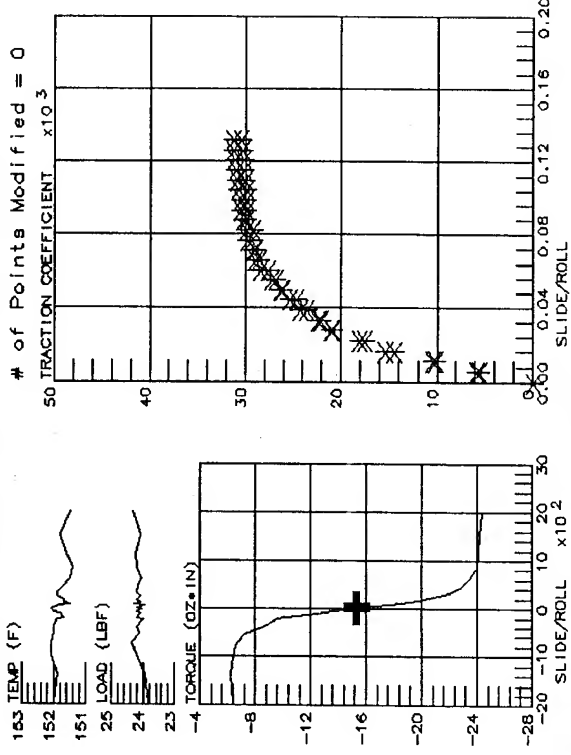
CH 89-191 Fomblin Z-25 Base Fluid #61
150F 4LBF 636RPM #11
FILE: ch150m



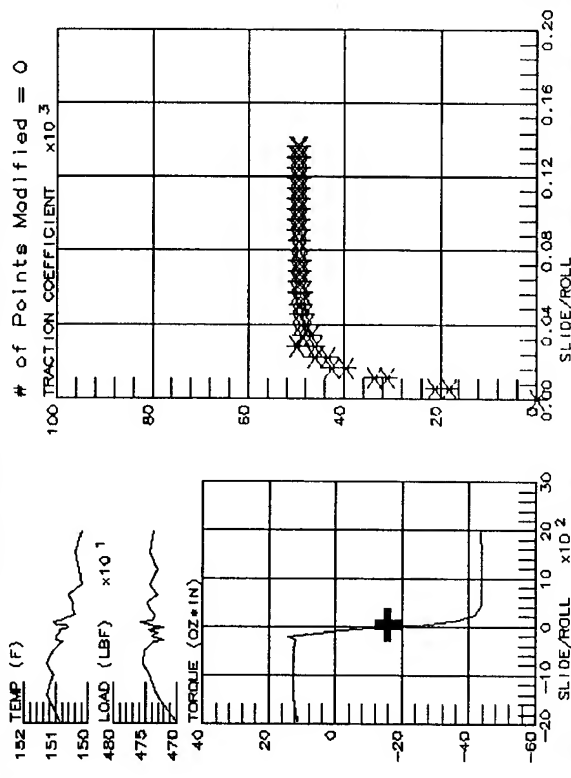
CH 89-191 Fomblin Z-25 Base Fluid #62
150F 11LBF 636RPM #12
FILE: ch150m



CH 89-191 Fomblin Z-25 Base Fluid #63
150F 25LBF 636RPM #13
FILE: ch150m

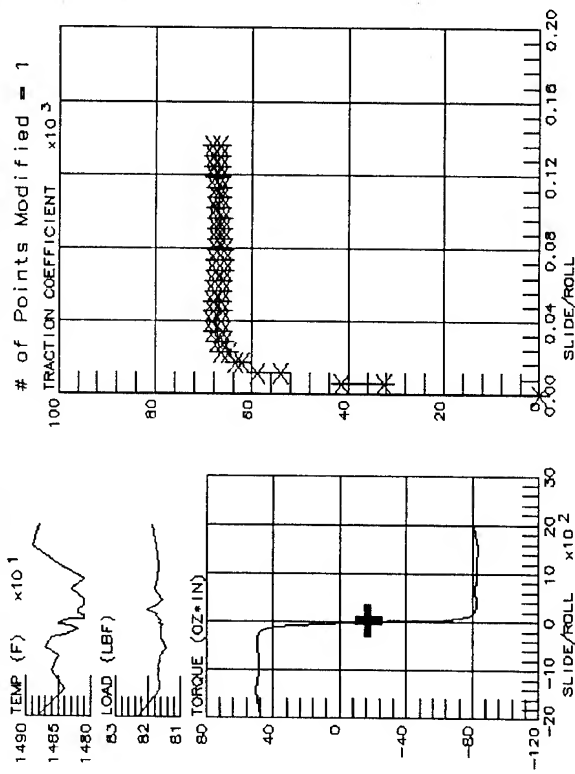


CH 89-191 Fomblin Z-25 Base Fluid #64
150F 48LBF 636RPM #14
FILE: ch150m

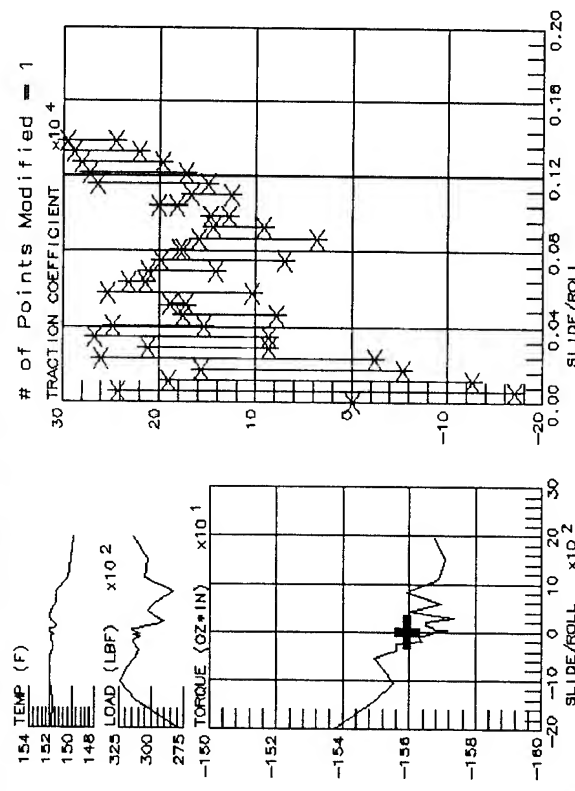


TRACTION DATA

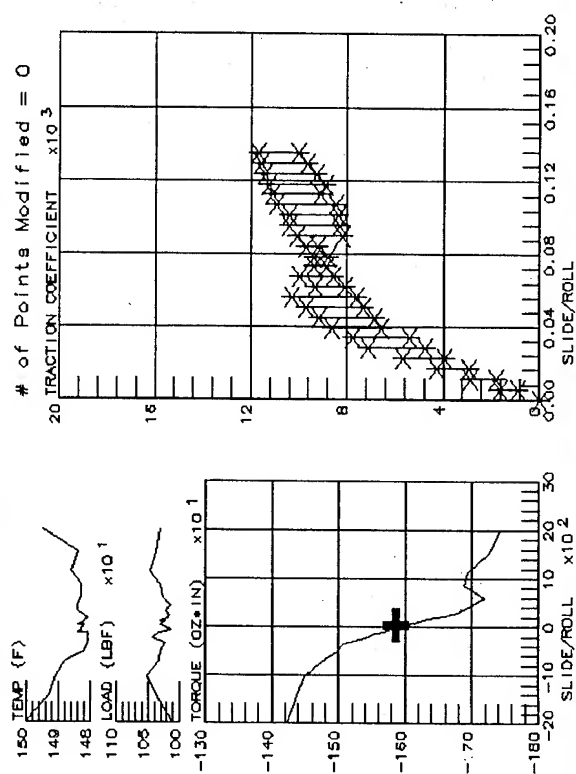
CH 89-191 Fomblin Z-25 Base Fluid #65
150F 82LBF 636RPM #15 FILE: ch150m



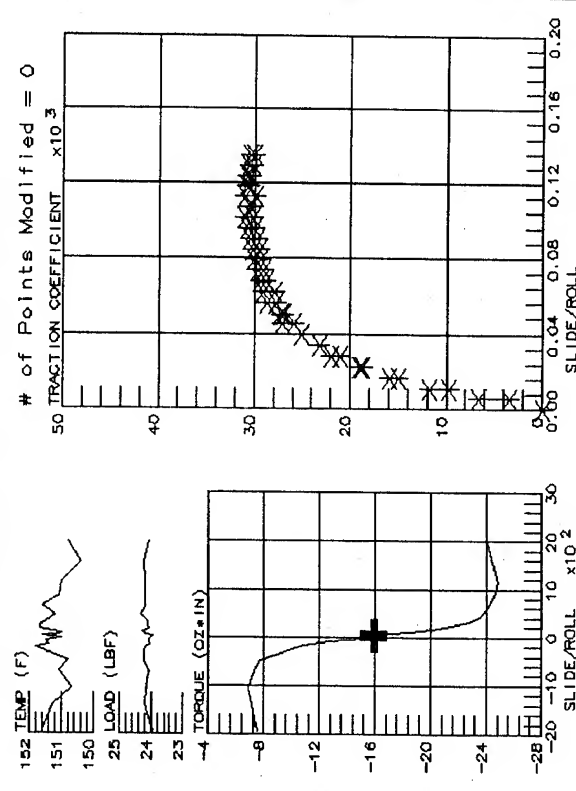
CH 89-191 Fomblin Z-25 Base Fluid #66
150F 4LBF 1270RPM #16 FILE: ch160m



CH 89-191 Fomblin Z-25 Base Fluid #67
150F 11LBF 1270RPM #17 FILE: ch150m



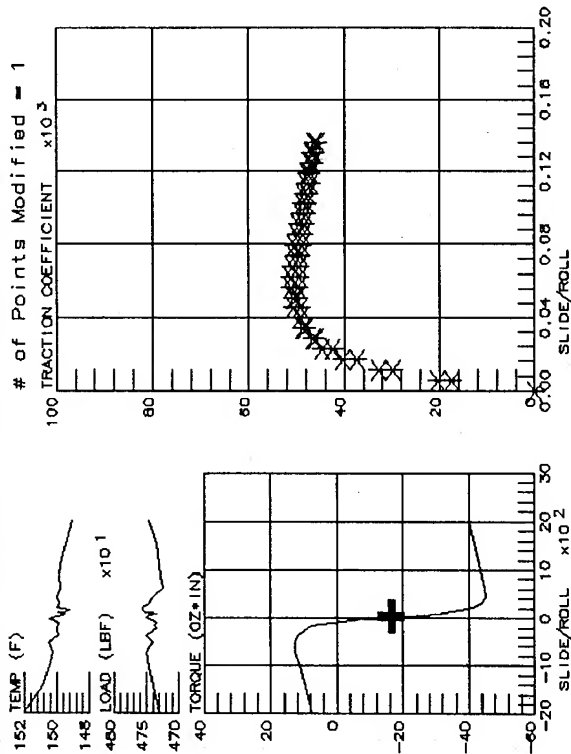
CH 89-191 Fomblin Z-25 Base Fluid #68
150F 25LBF 1270RPM #18 FILE: ch150m



TRACTION DATA

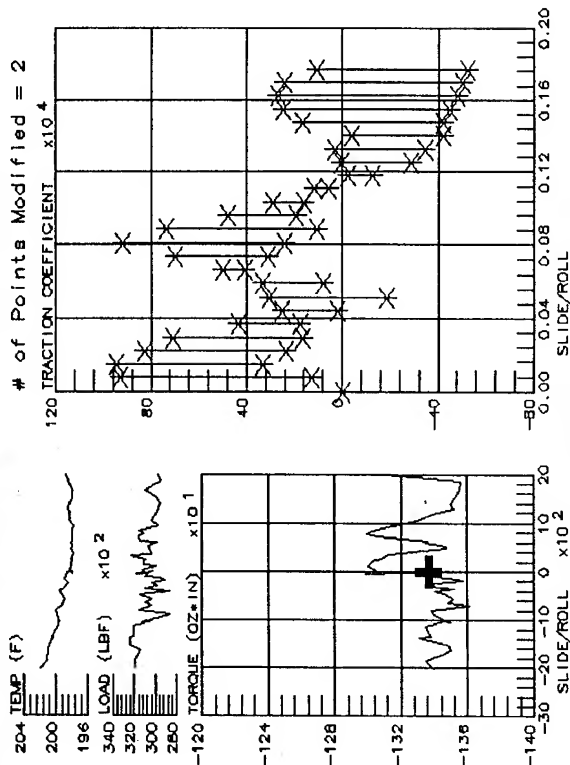
CH 89-191 Fomblin Z-25 Base Fluid #69
150F 48LBF 1270RPM #19 FILE: ch150m

of Points Modified = 1



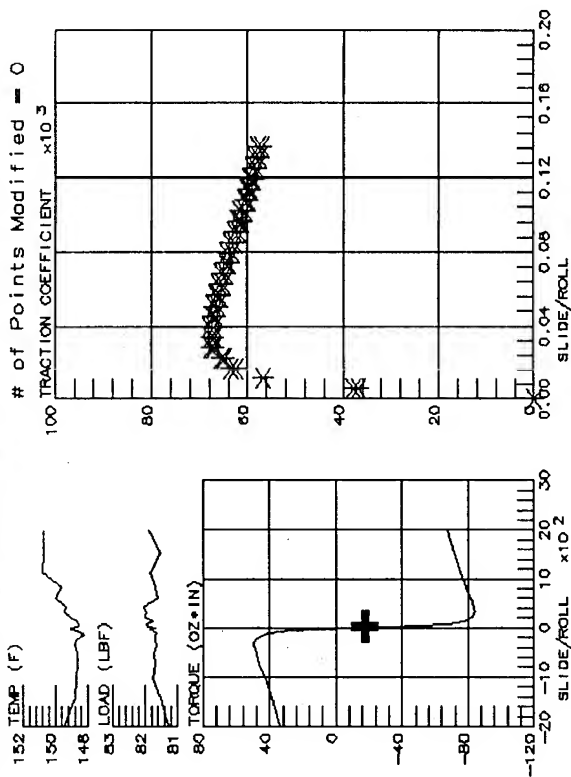
CH 89-191 Fomblin Z-25 Base Fluid #71
200F 4LBF 2550RPM #1 FILE: ch200h

of Points Modified = 2



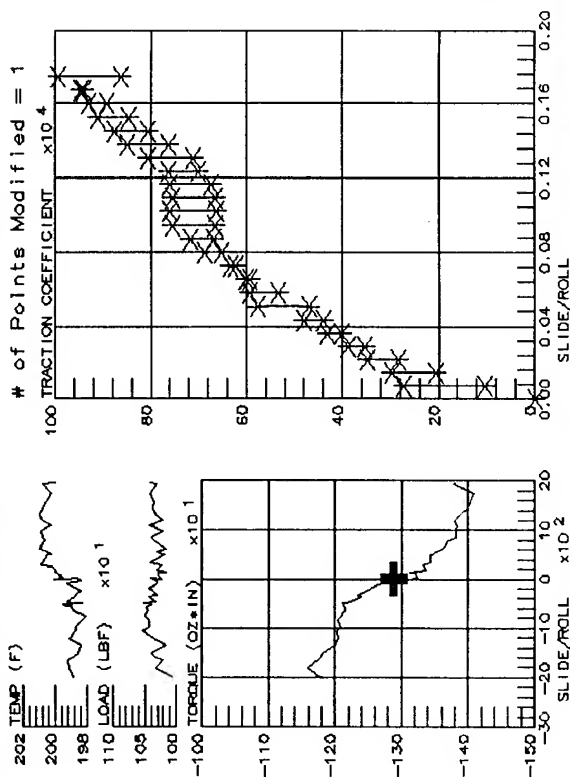
CH 89-191 Fomblin Z-25 Base Fluid #70
150F 82LBF 1270RPM #20 FILE: ch150m

of Points Modified = 0



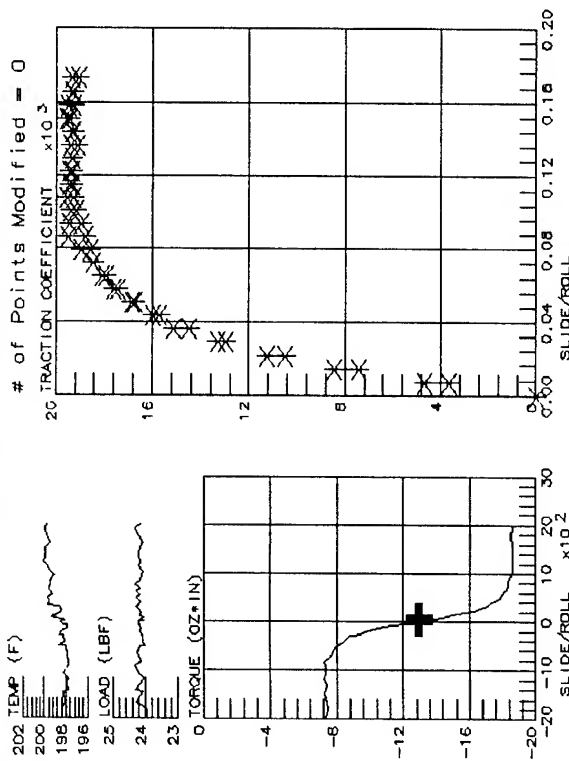
CH 89-191 Fomblin Z-25 Base Fluid #72
200F 11LBF 2550RPM #2 FILE: ch200h

of Points Modified = 1

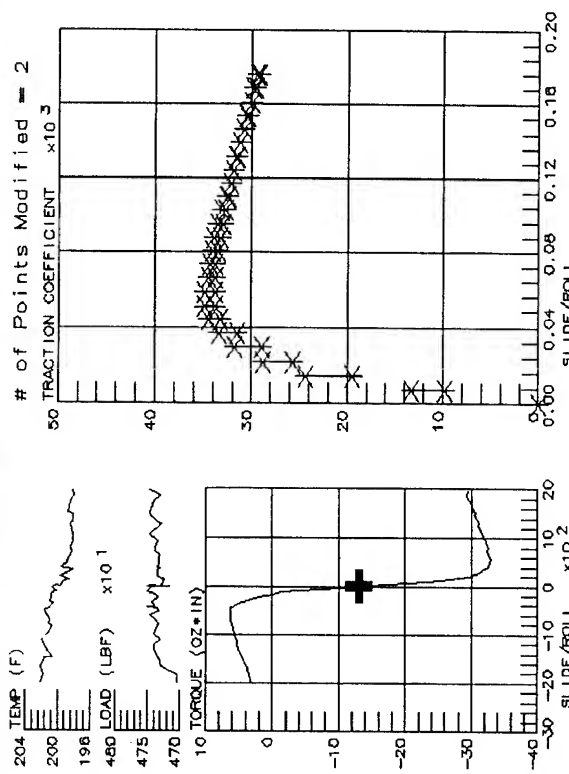


TRACTION DATA

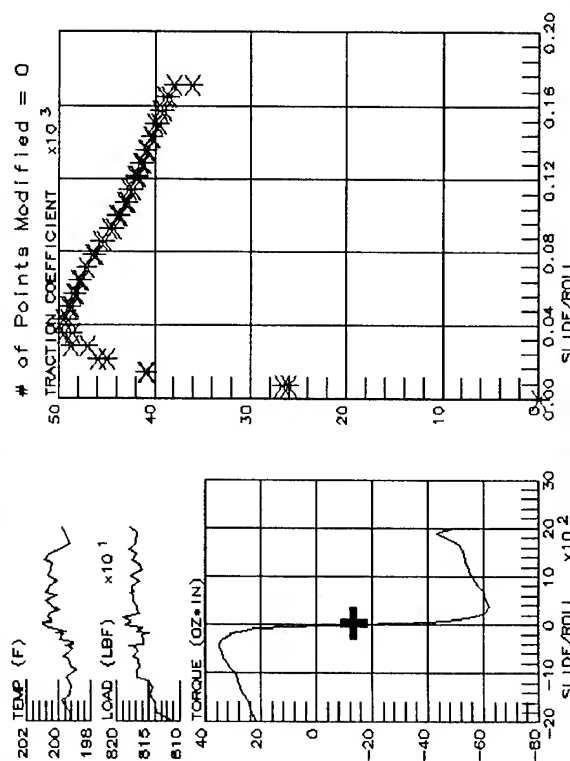
CH 89-191 Foamblin Z-25 Base Fluid #73
200F 25LBF 2550RPM #3 FILE: ch200h



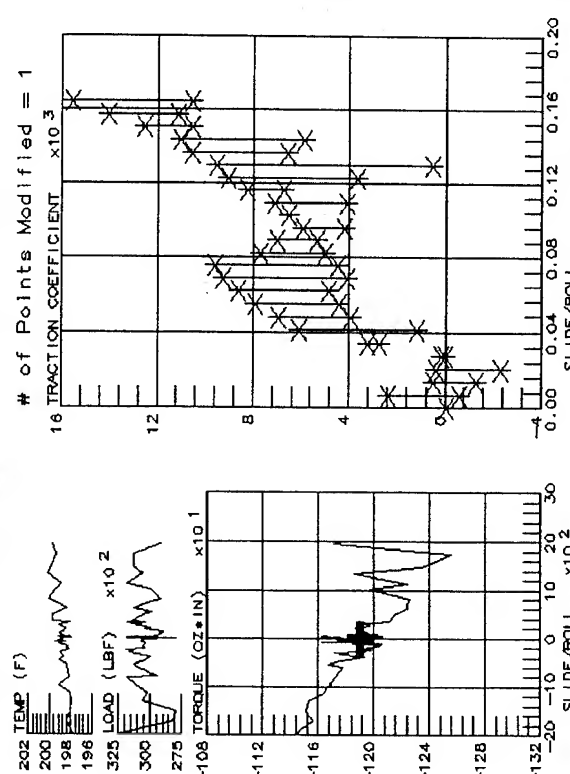
CH 89-191 Foamblin Z-25 Base Fluid #74
200F 48LBF 2550RPM #4 FILE: ch200h



CH 89-191 Foamblin Z-25 Base Fluid #75
200F 82LBF 2550RPM #5 FILE: ch200h

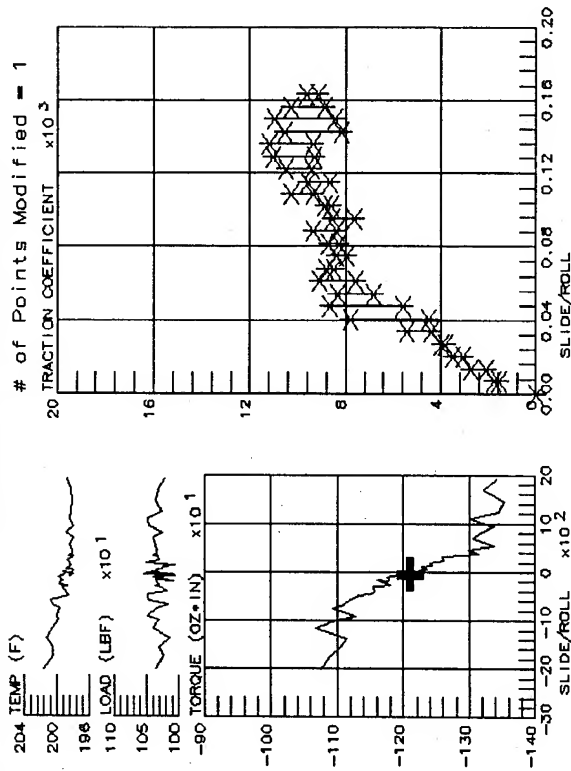


CH 89-191 Foamblin Z-25 Base Fluid #76
200F 41LBF 5100RPM #6 FILE: ch200h

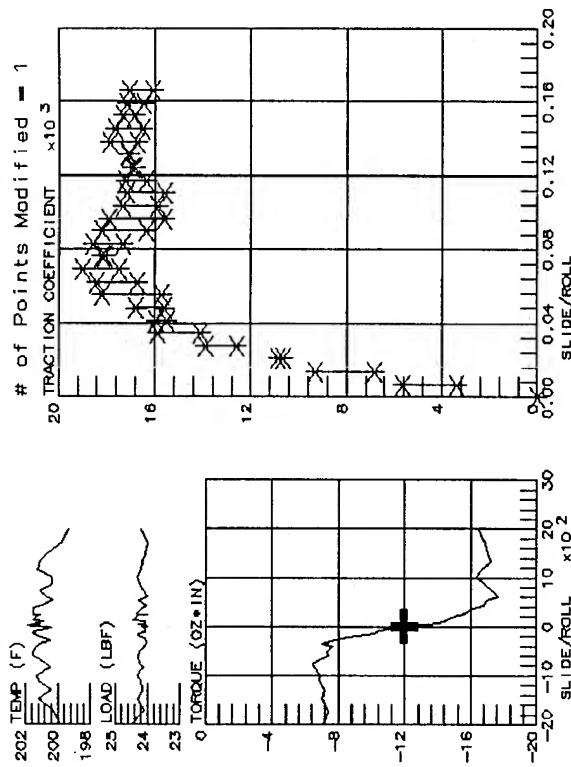


TRACTION DATA

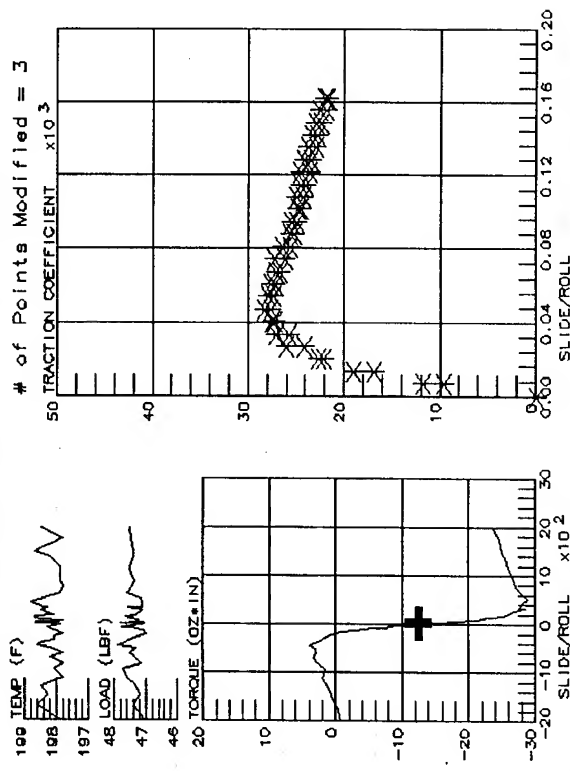
CH 89-191 Fomblin Z-25 Base Fluid #77
200F 111BF 5100RPM #7 FILE: ch200h



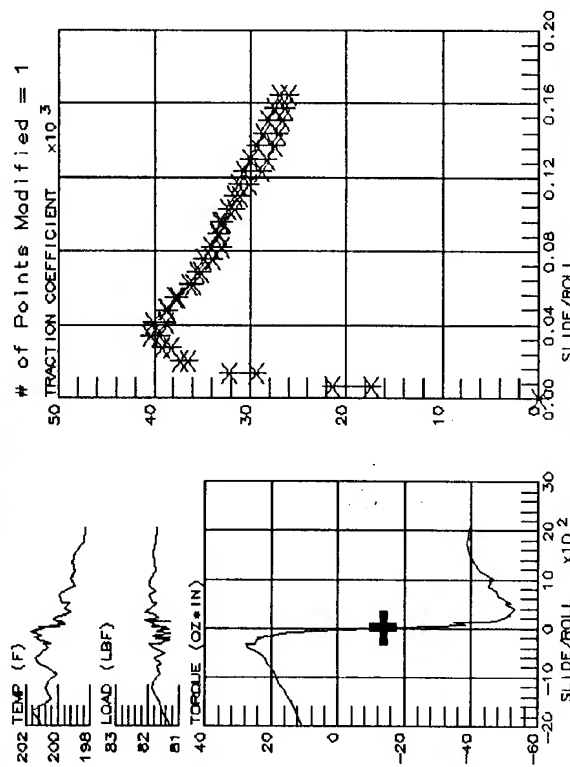
CH 89-191 Fomblin Z-25 Base Fluid #78
200F 251BF 5100RPM #8 FILE: ch200h



CH 89-191 Fomblin Z-25 Base Fluid #79
200F 481BF 5100RPM #9 FILE: ch200h

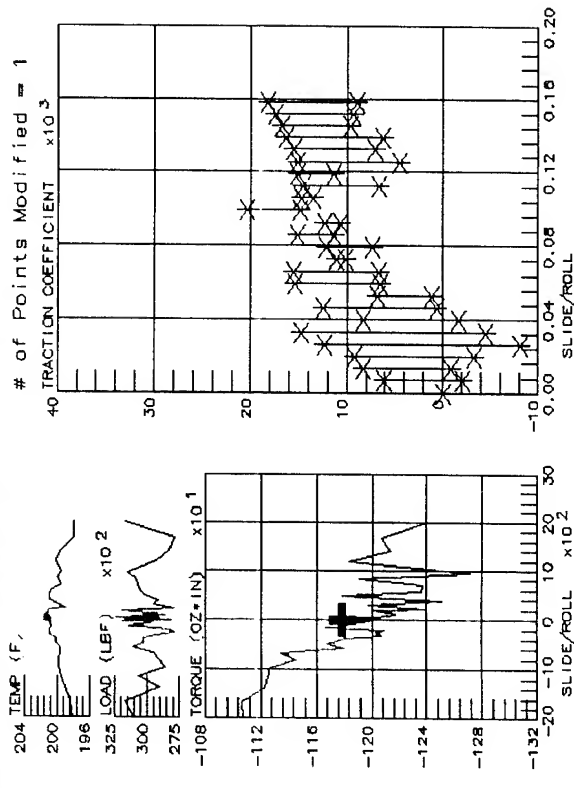


CH 89-191 Fomblin Z-25 Base Fluid #80
200F 821BF 5100RPM #10 FILE: ch200h

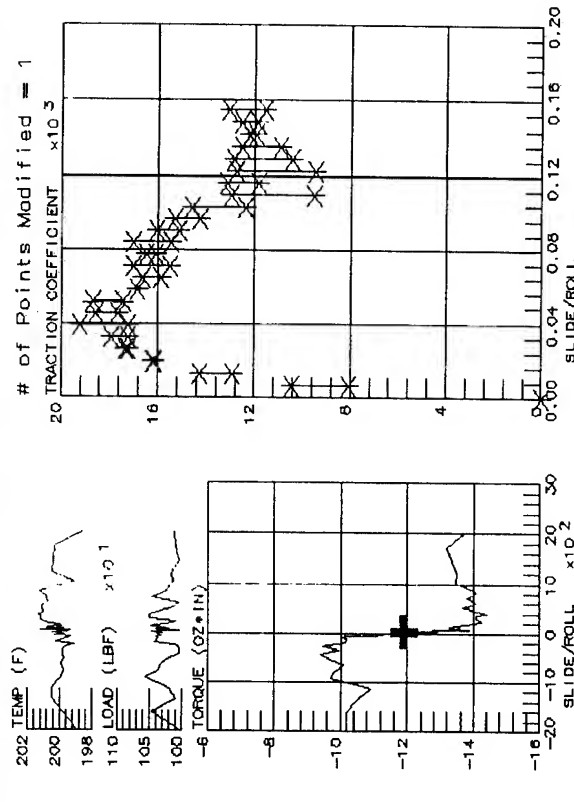


TRACTION DATA

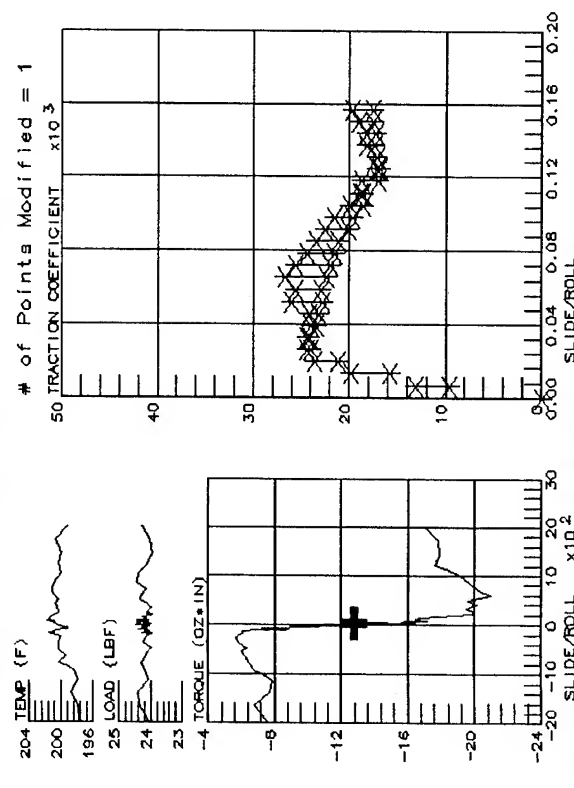
CH 89-191 Foamblin Z-25 Base Fluid #81
200F 4LBF 10150RPM #11 FILE: ch200h



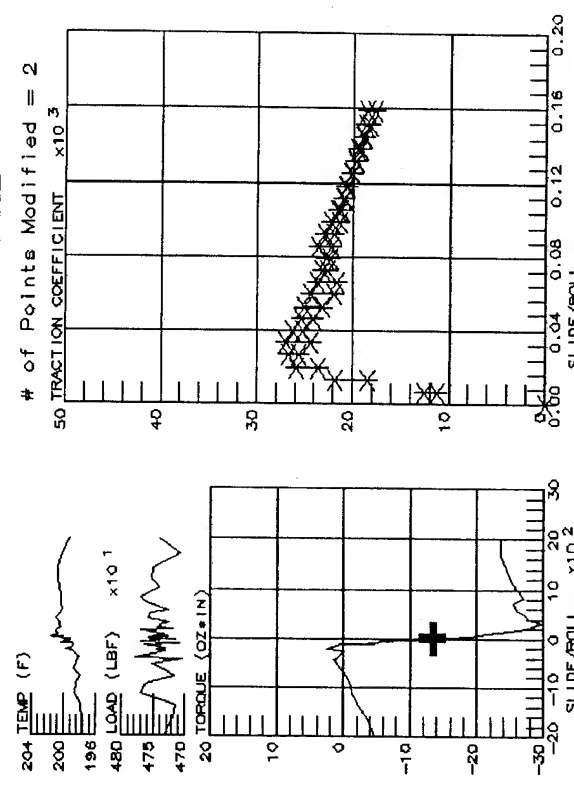
CH 89-191 Foamblin Z-25 Base Fluid #82
200F 11LBF 10150RPM #12 FILE: ch200h



CH 89-191 Foamblin Z-25 Base Fluid #83
200F 25LBF 10150RPM #13 FILE: ch200h

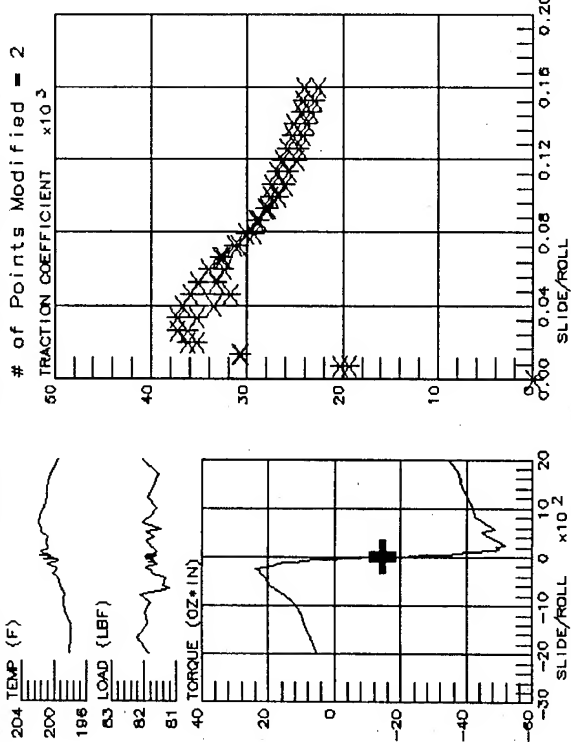


CH 89-191 Foamblin Z-25 Base Fluid #84
200F 48LBF 10150RPM #14 FILE: ch200h

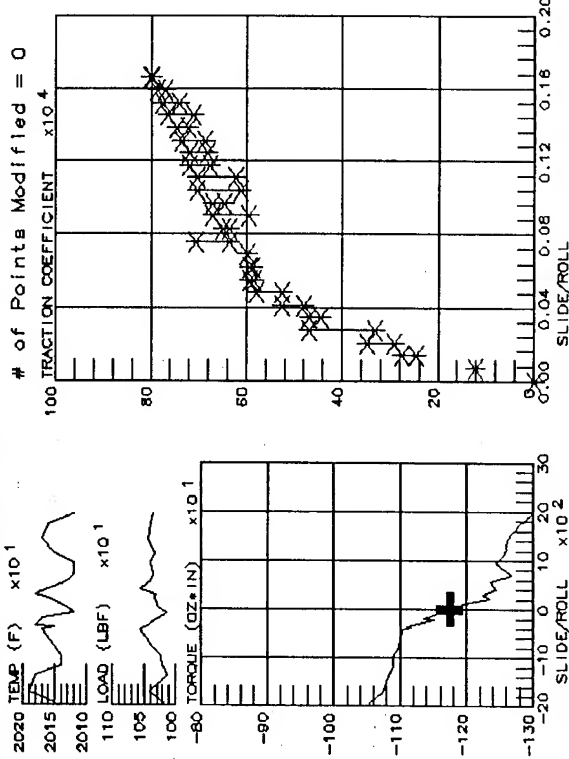


TRACTION DATA

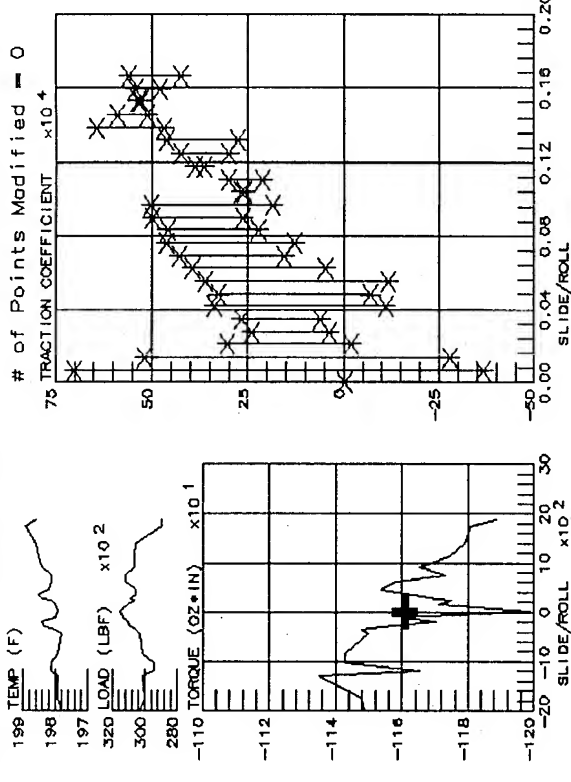
CH 89-191 Fomblin Z-25 Base Fluid #85
200F 82LBF 10150RPM #15 FILE: ch200h



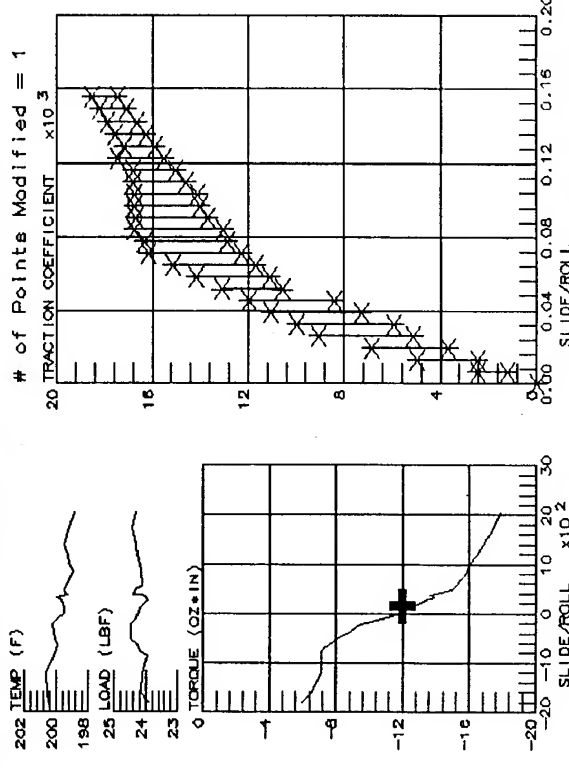
CH 89-191 Fomblin Z-25 Base Fluid #87
200F 11LBF 152RPM #2 FILE: ch200m



CH 89-191 Fomblin Z-25 Base Fluid #88
200F 4LBF 152RPM #1 FILE: ch200n

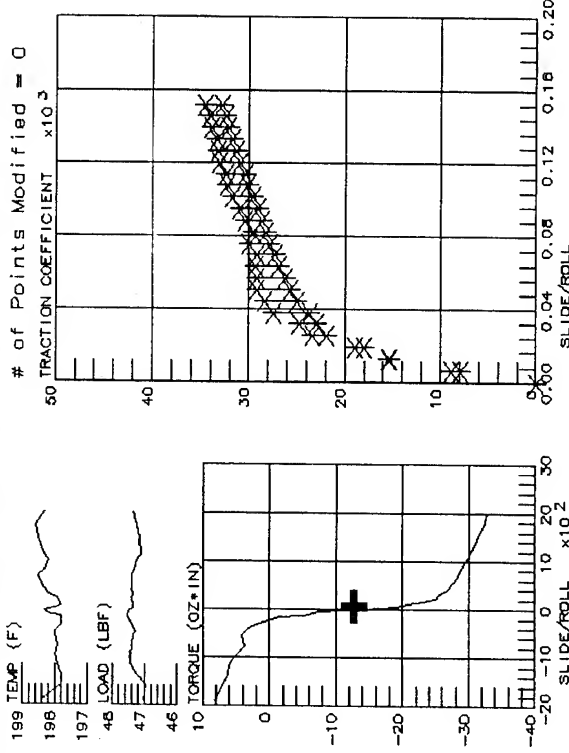


CH 89-191 Fomblin Z-25 Base Fluid #88
200F 25LBF 152RPM #3 FILE: ch200m

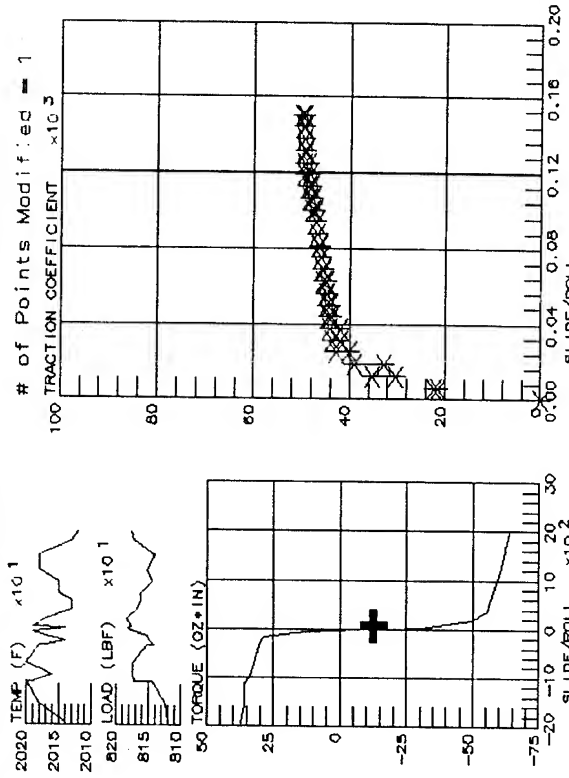


TRACTION DATA

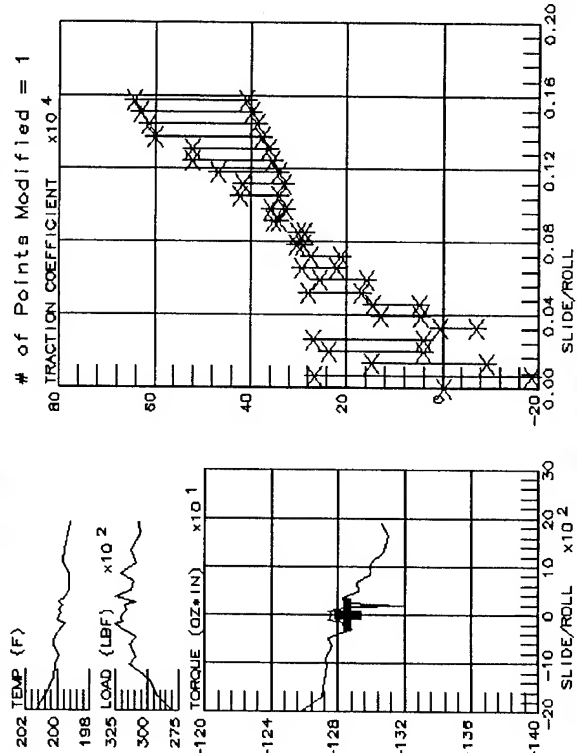
CH 89-191 Foamblin Z-25 Base Fluid #89
200F 48LBF 152RPM #4 FILE: ch200m



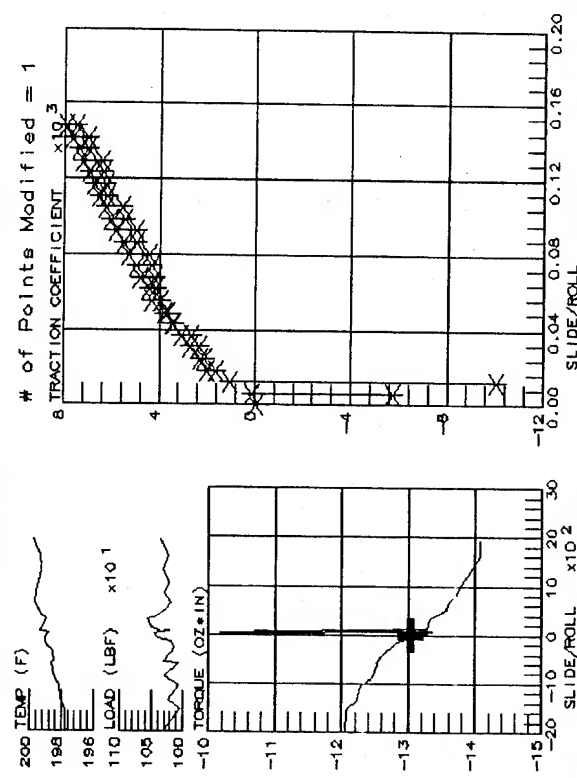
CH 89-191 Foamblin Z-25 Base Fluid #90
200F 82LBF 152RPM #5 FILE: ch200m



CH 89-191 Foamblin Z-25 Base Fluid #91
200F 4LBF 310RPM #6 FILE: ch200m

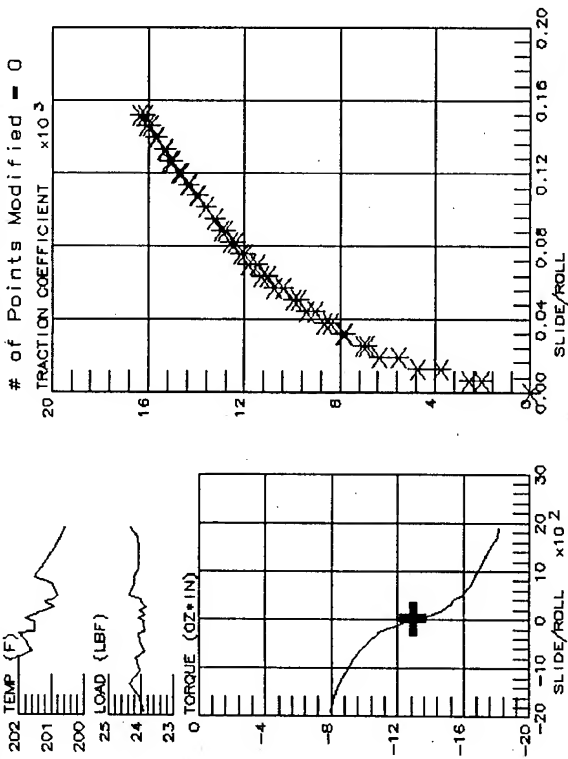


CH 89-191 Foamblin Z-25 Base Fluid #92
200F 11LBF 310RPM #7 FILE: ch200m

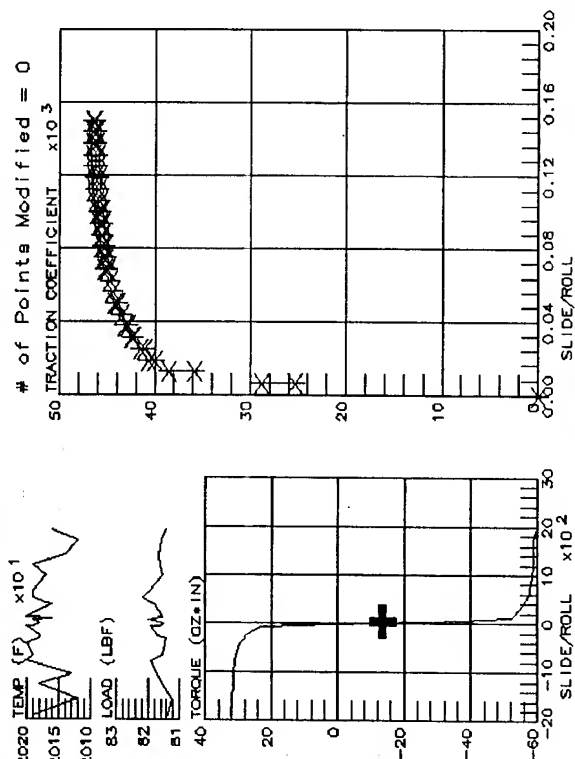


TRACTION DATA

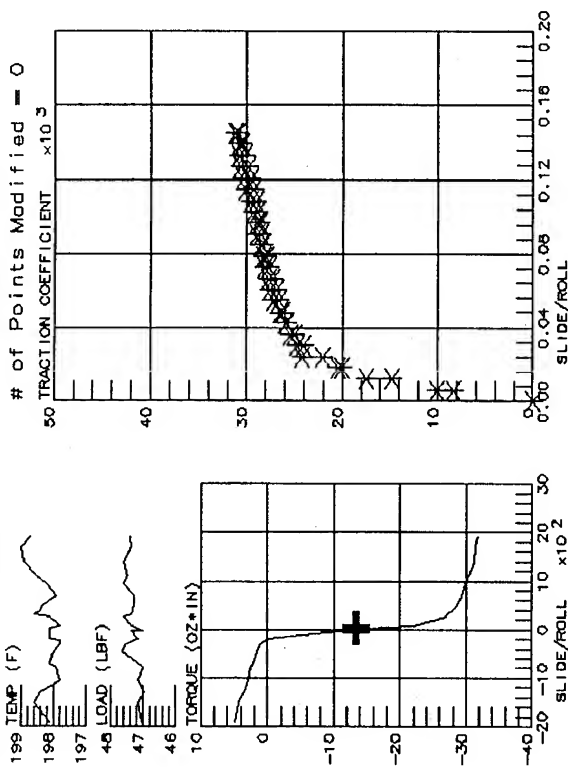
CH 89-191 Fomblin Z-25 Base Fluid #93
200F 25LBF 310RPM #8 FILE: ch200m



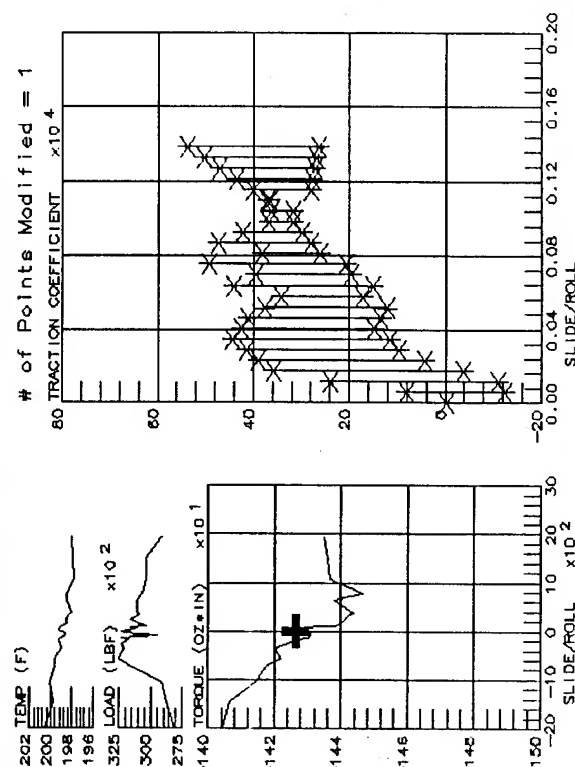
CH 89-191 Fomblin Z-25 Base Fluid #95
200F 82LBF 310RPM #10 FILE: ch200m



CH 89-191 Fomblin Z-25 Base Fluid #94
200F 48LBF 310RPM #9 FILE: ch200m

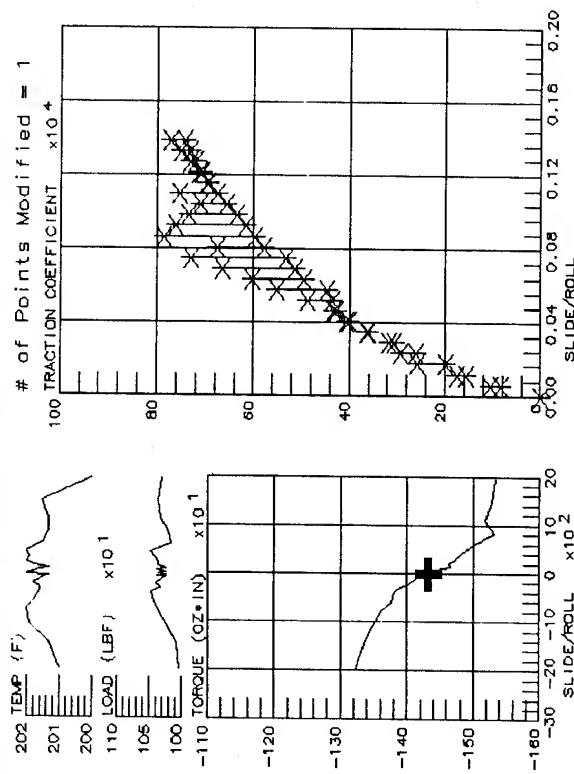


CH 89-191 Fomblin Z-25 Base Fluid #96
200F 41LBF 636RPM #11 FILE: ch200m

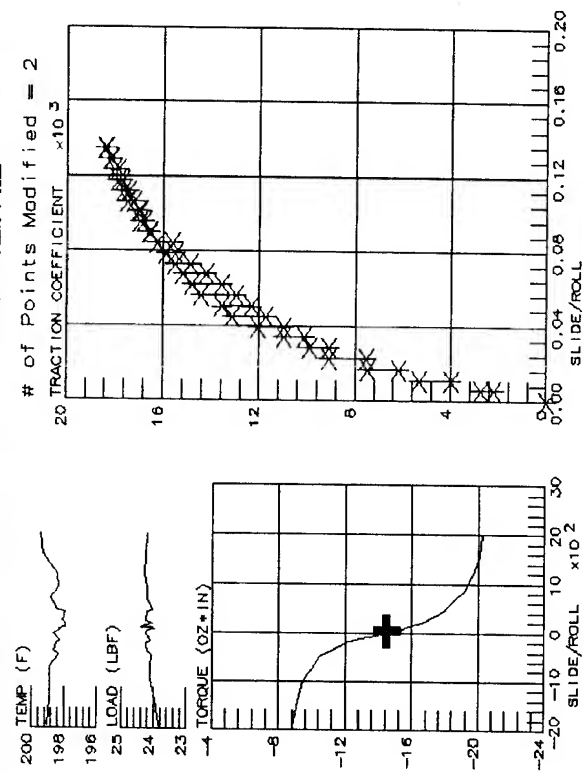


TRACTION DATA

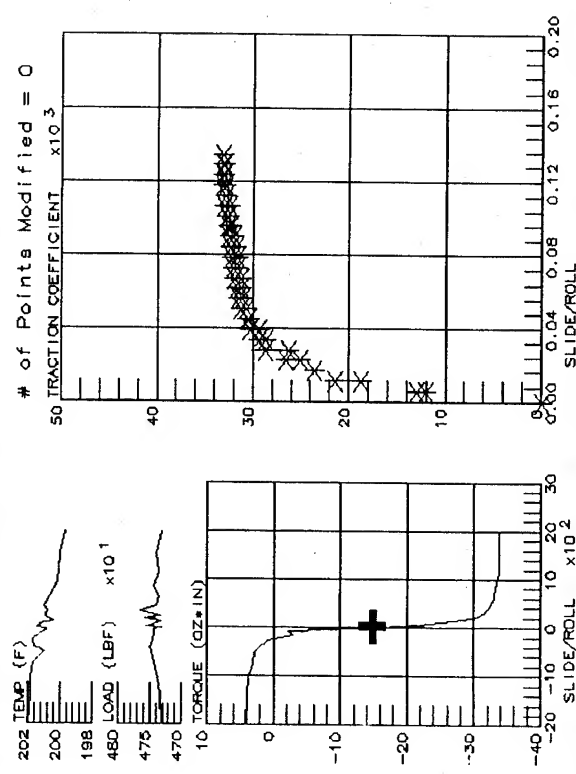
CH 89-191 Fomblin Z-25 Base Fluid #97
200F 11LBF 636RPM #12 FILE: ch200m



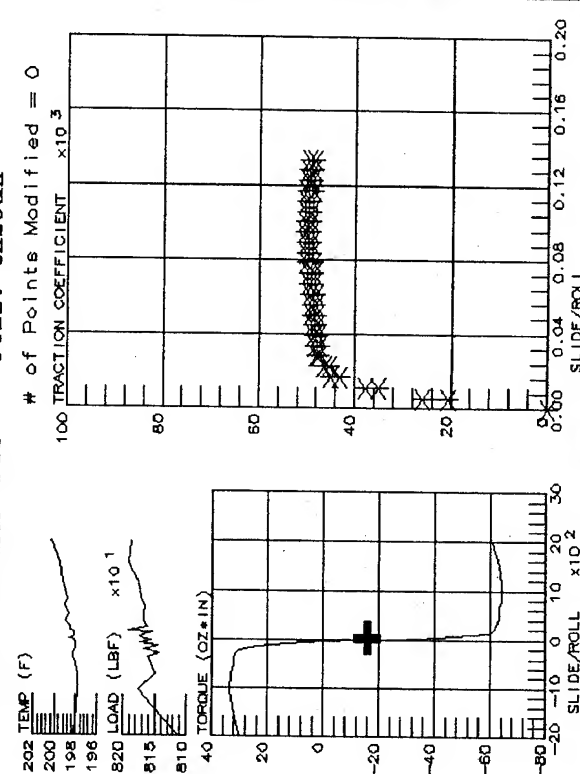
CH 89-191 Fomblin Z-25 Base Fluid #98
200F 25LBF 636RPM #13 FILE: ch200m



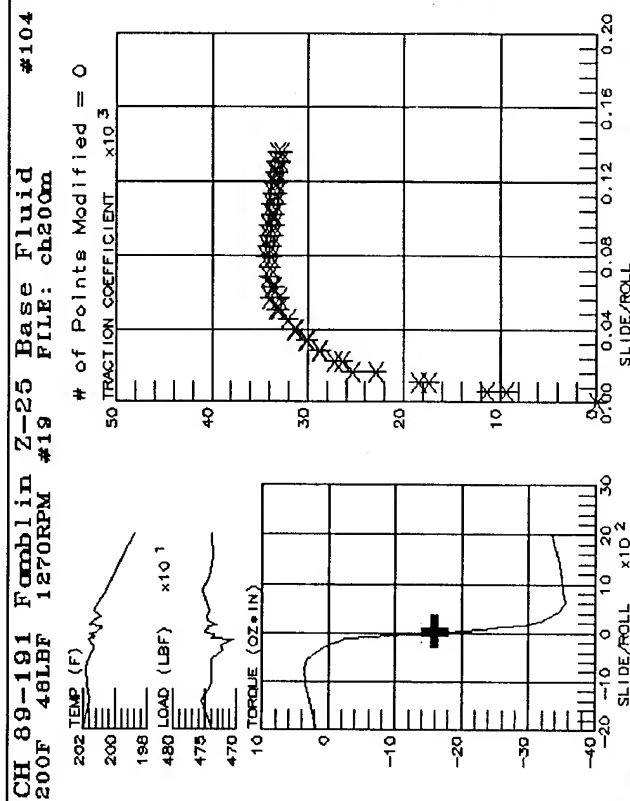
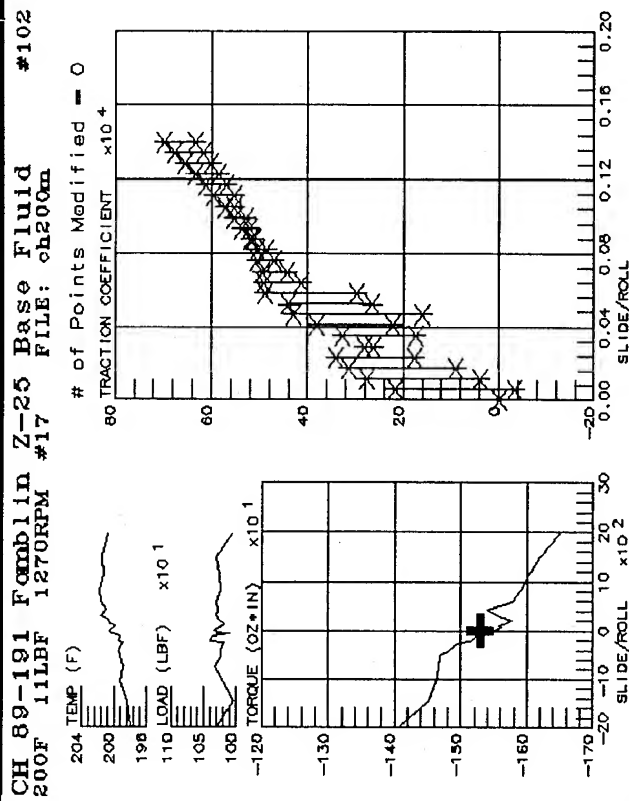
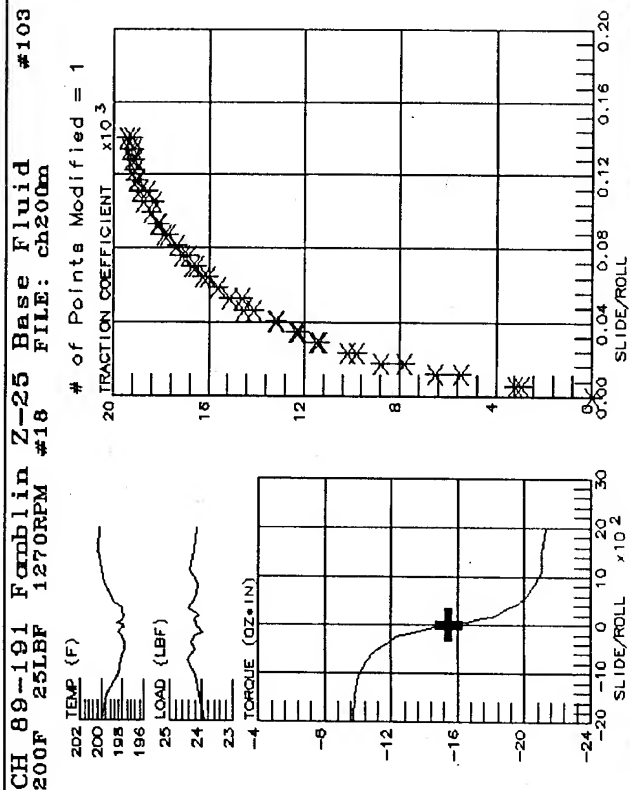
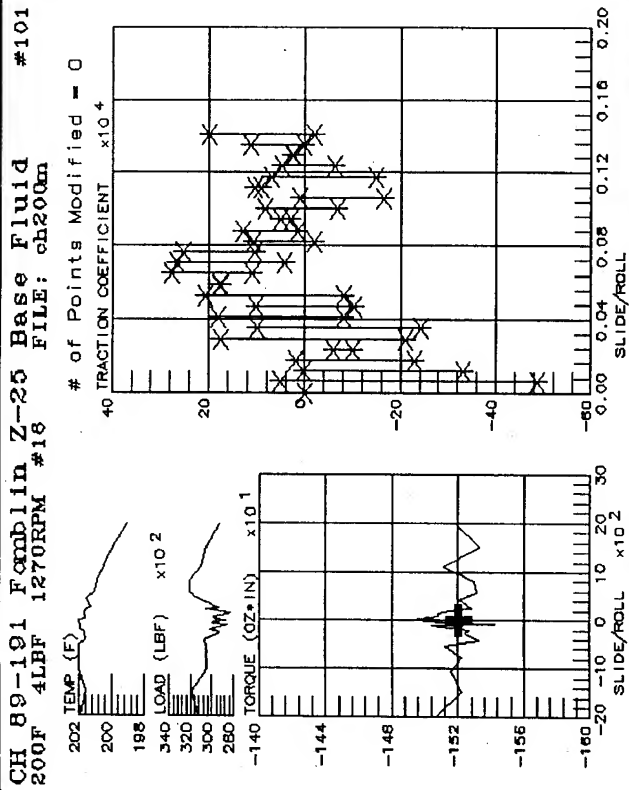
CH 89-191 Fomblin Z-25 Base Fluid #99
200F 48LBF 636RPM #14 FILE: ch200m



CH 89-191 Fomblin Z-25 Base Fluid #100
200F 82LBF 636RPM #15 FILE: ch200m

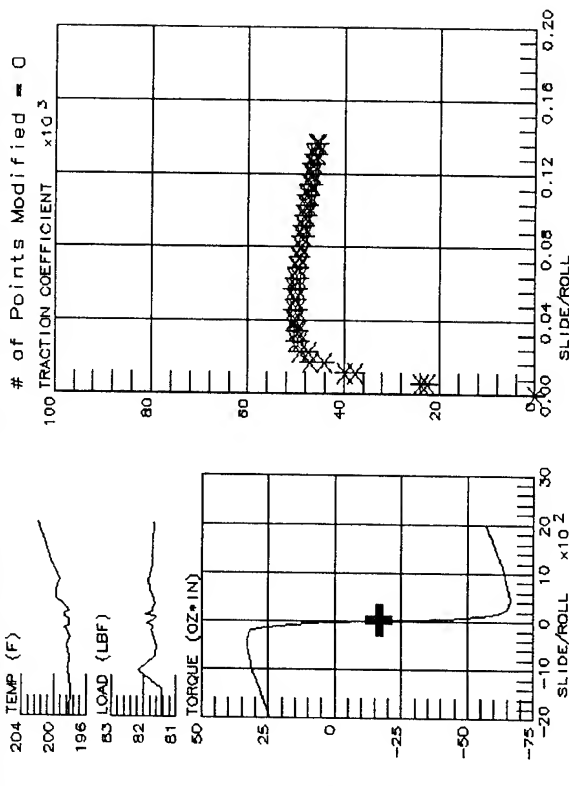


TRACTION DATA

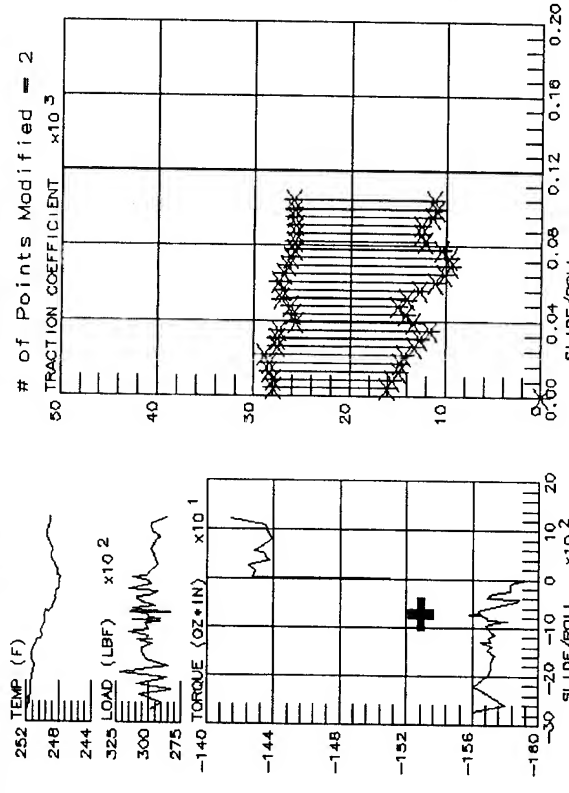


TRACTION DATA

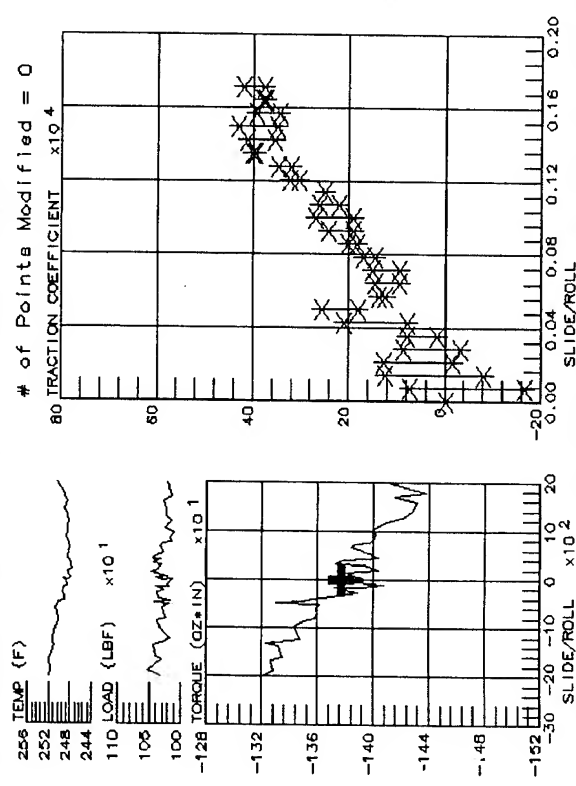
CH 89-191 Fomblin Z-25 Base Fluid #105
200F 82LBF 1270RPM #20 FILE: ch200m



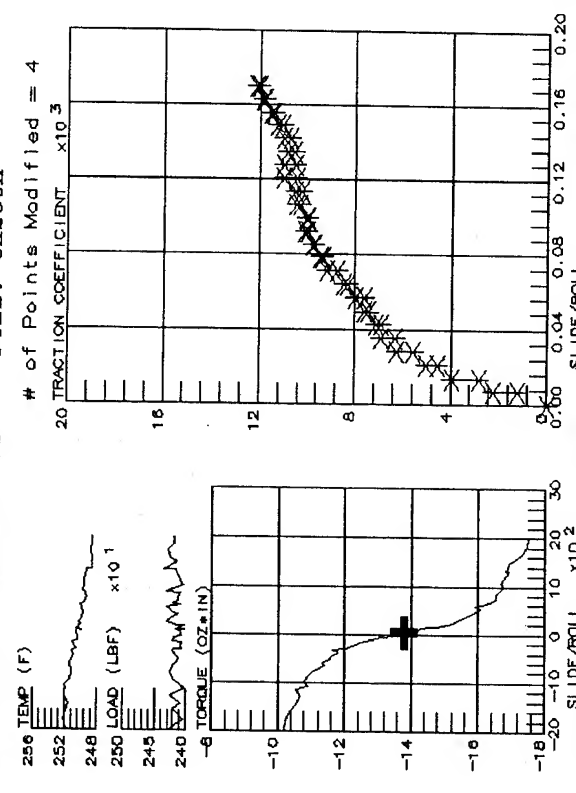
CH 89-191 Fomblin Z-25 Base Fluid #108
250F 4LBF 2550RPM #1 FILE: ch250h



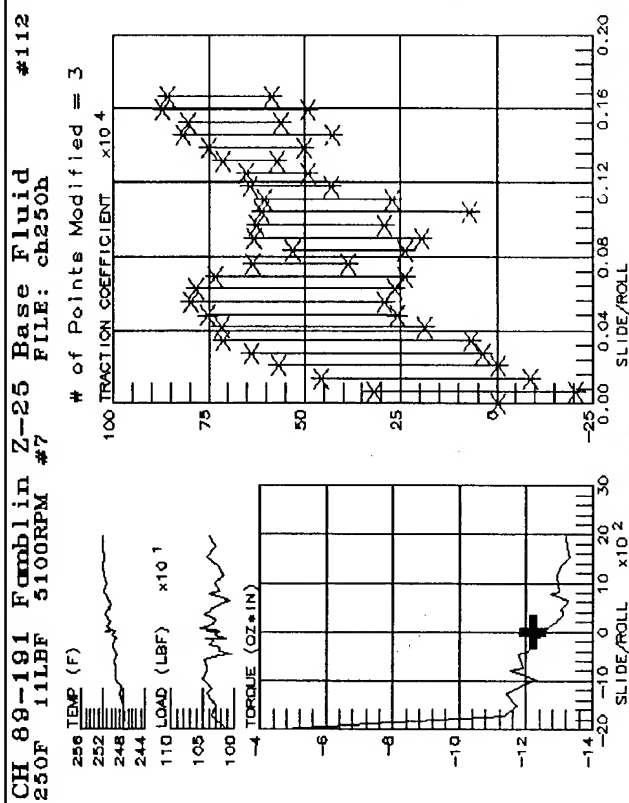
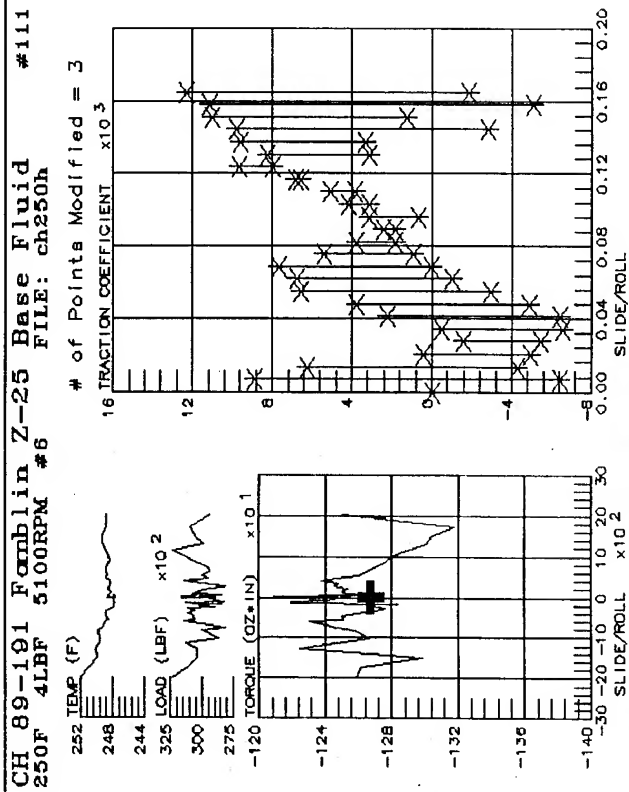
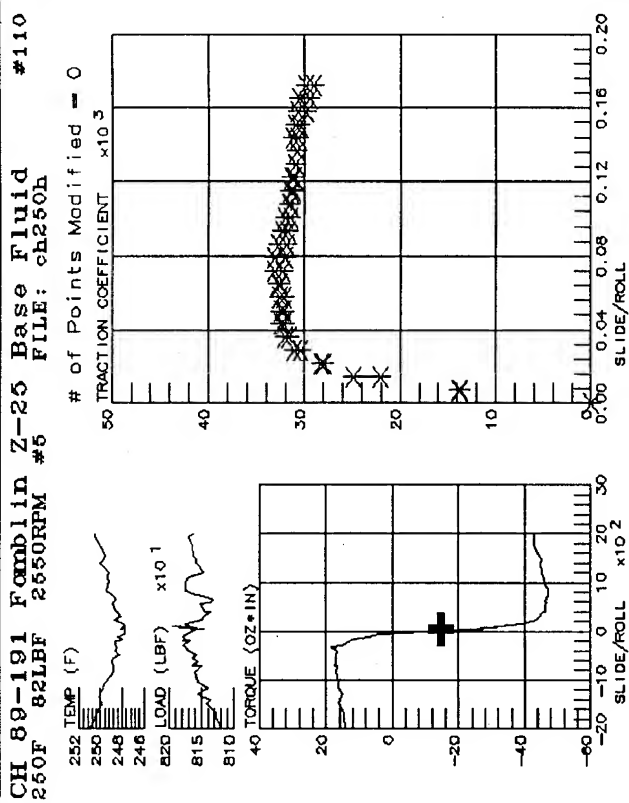
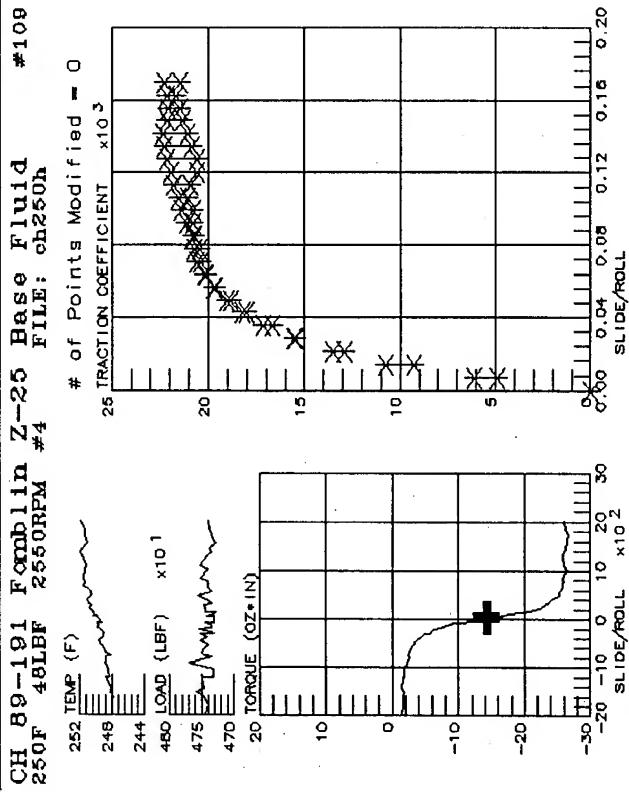
CH 89-191 Fomblin Z-25 Base Fluid #107
250F 111LBF 2550RPM #2 FILE: ch250h



CH 89-191 Fomblin Z-25 Base Fluid #108
250F 25LBF 2550RPM #3 FILE: ch250h

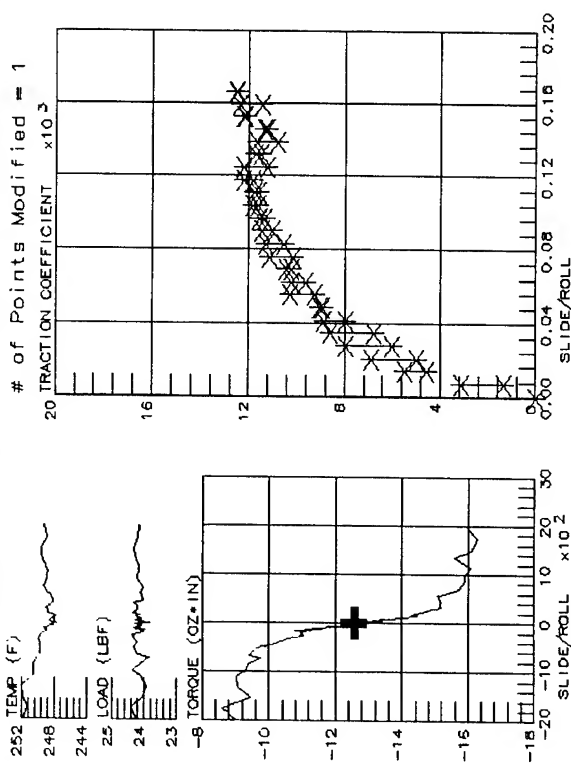


TRACTION DATA

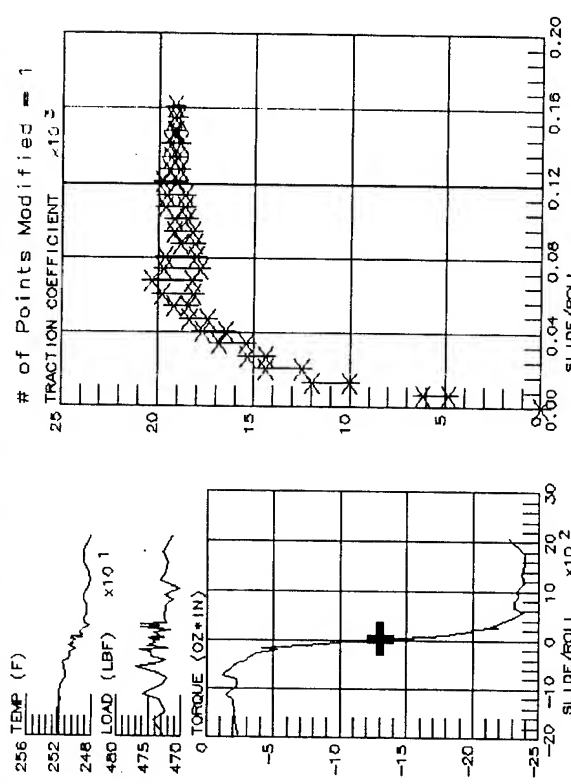


TRACTION DATA

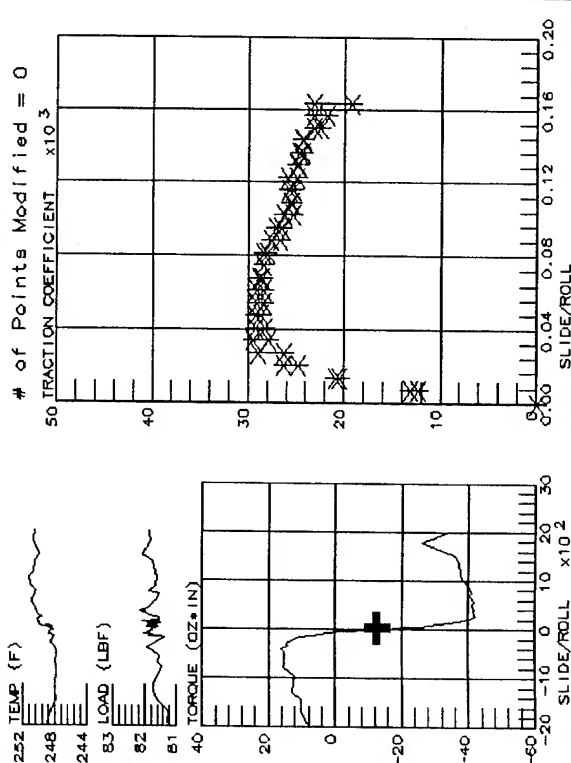
CH 89-191 Fomblin Z-25 Base Fluid #113
250F 25LBF 5100RPM #8 FILE: ch250h



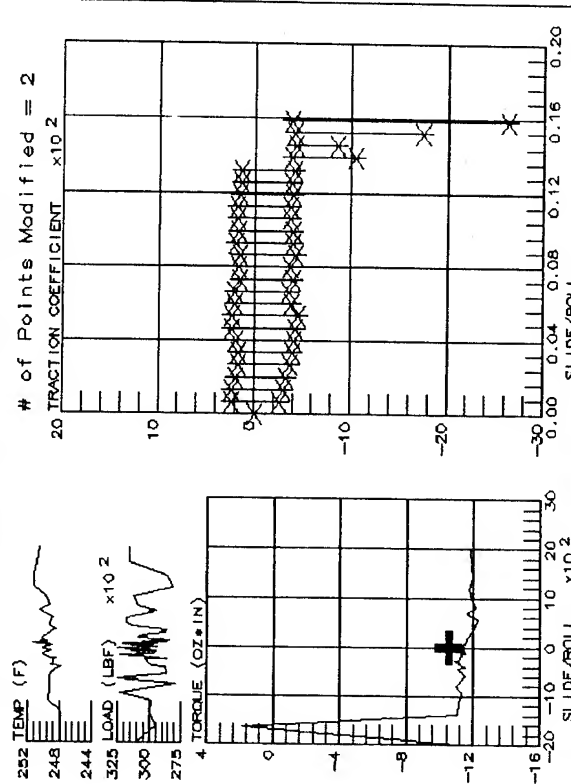
CH 89-191 Fomblin Z-25 Base Fluid #114
250F 48LBF 5100RPM #9 FILE: ch250h



CH 89-191 Fomblin Z-25 Base Fluid #115
250F 82LBF 5100RPM #10 FILE: ch250h

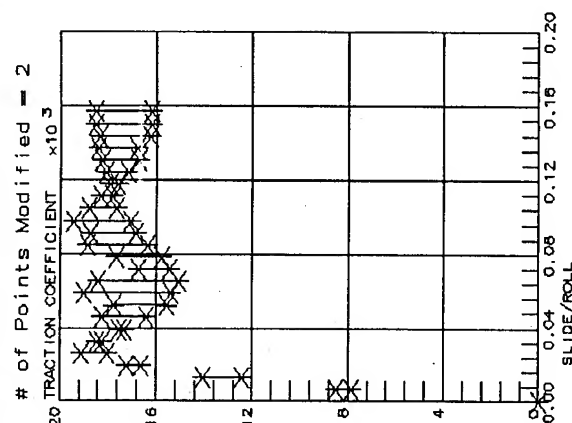
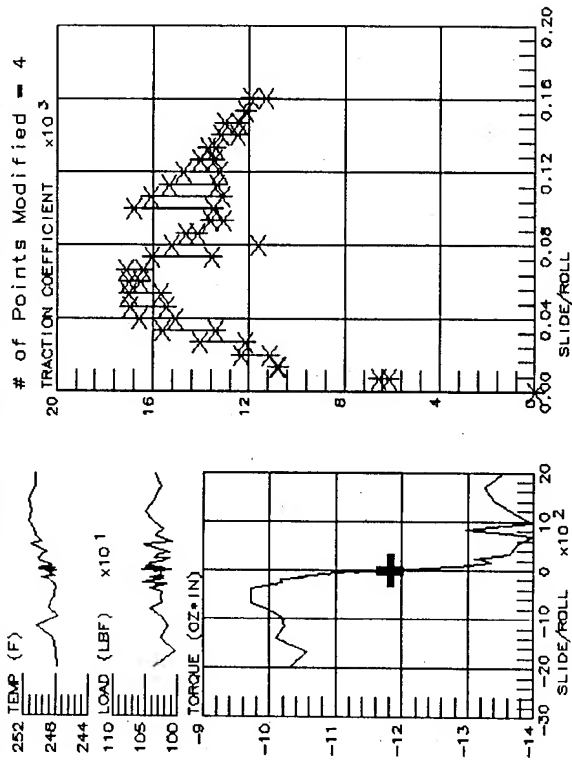


CH 89-191 Fomblin Z-25 Base Fluid #116
250F 4LBF 10150RPM #11 FILE: ch250h

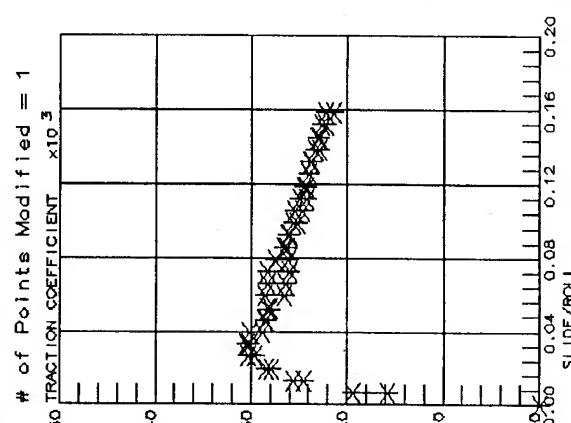
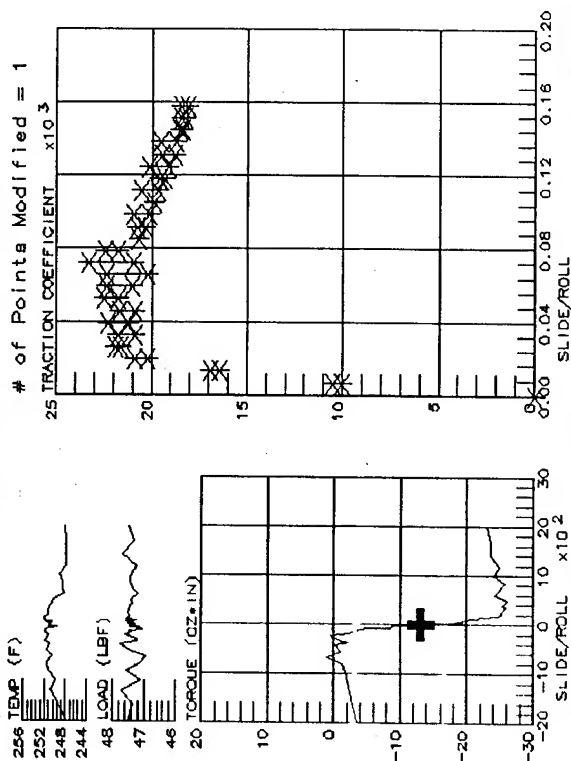


TRACTION DATA

CH 89-191 Fomblin Z-25 Base Fluid #117
250F 111BF 10150RPM #12 FILE: ch250h

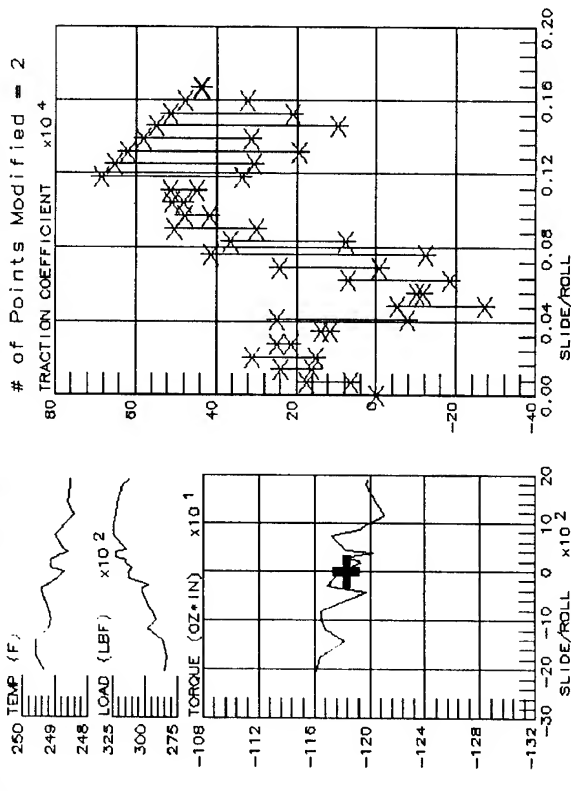


CH 89-191 Fomblin Z-25 Base Fluid #119
250F 48BF 10150RPM #14 FILE: ch250h

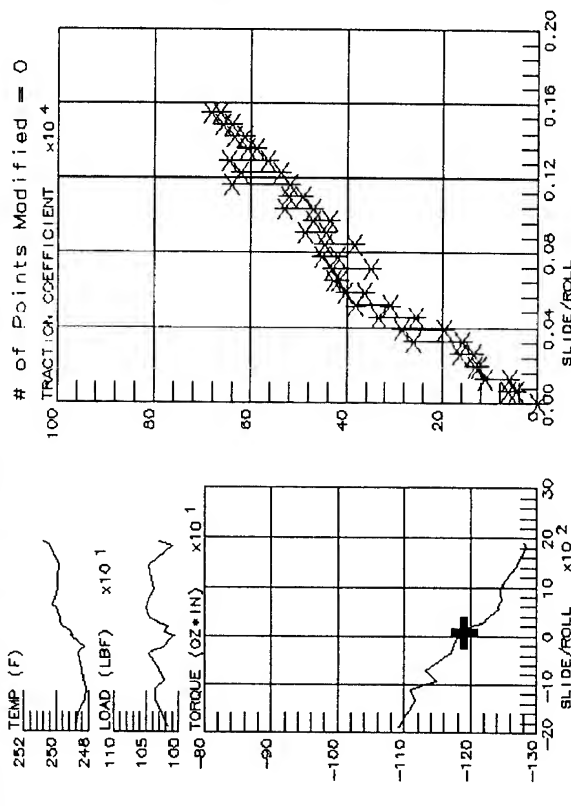


TRACTION DATA

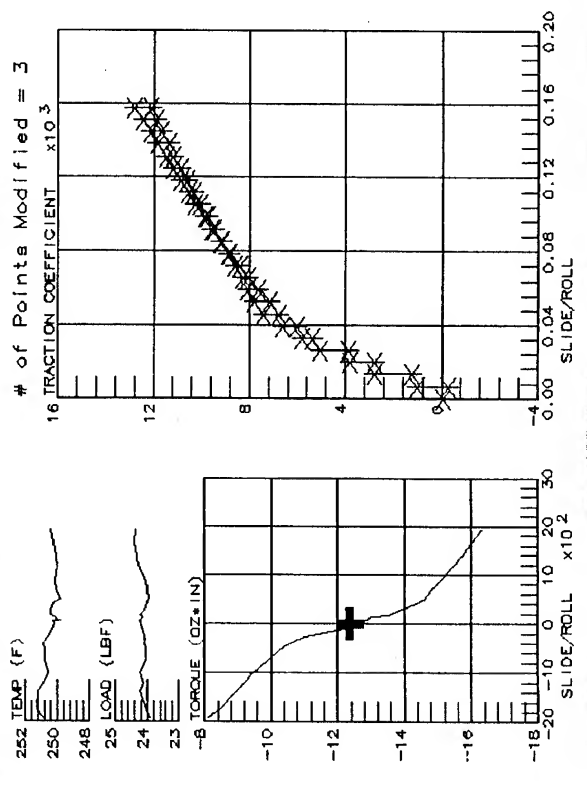
CH 89-191 Fomblin Z-25 Base Fluid #121
250F 4LBF 152RPM #1
FILE: ch250m



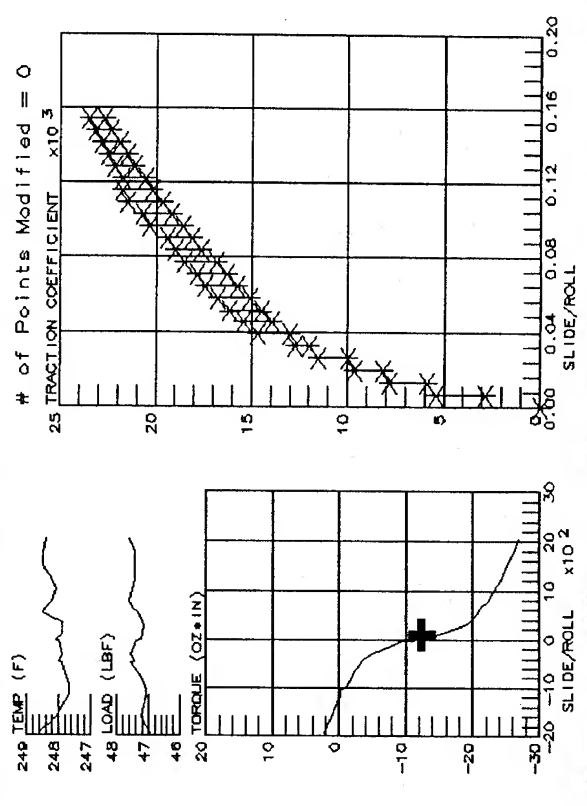
CH 89-191 Fomblin Z-25 Base Fluid #122
250F 11LBF 152RPM #2
FILE: ch250m



CH 89-191 Fomblin Z-25 Base Fluid #123
250F 25LBF 152RPM #3
FILE: ch250m

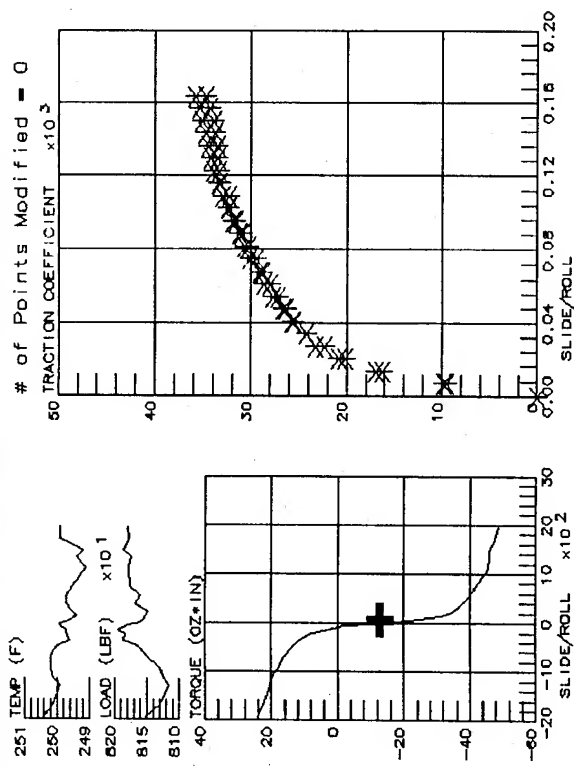


CH 89-191 Fomblin Z-25 Base Fluid #124
250F 48LBF 152RPM #4
FILE: ch250m

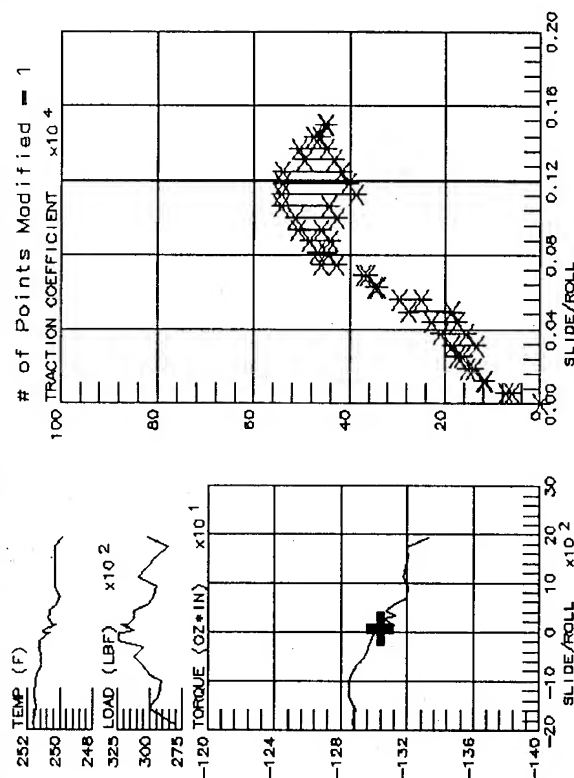


TRACTION DATA

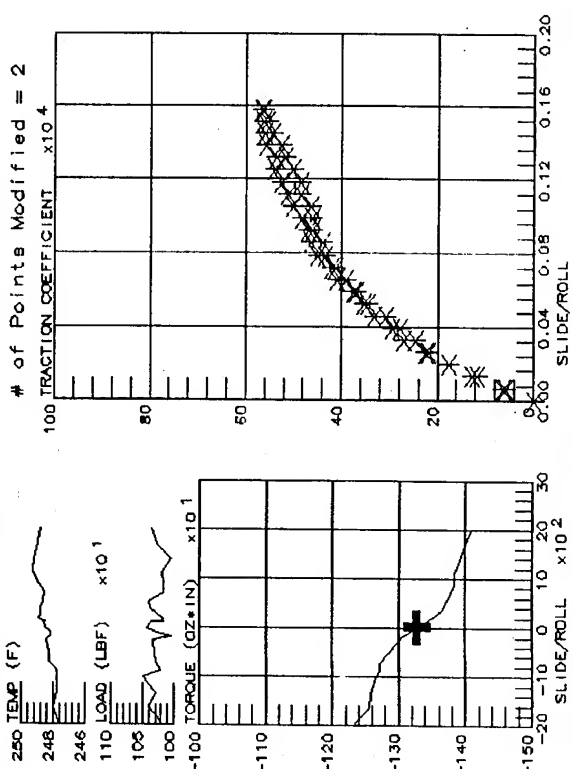
CH 89-191 Fomblin Z-25 Base Fluid #126
250F 82LBF 152RPM #6 FILE: ch250m



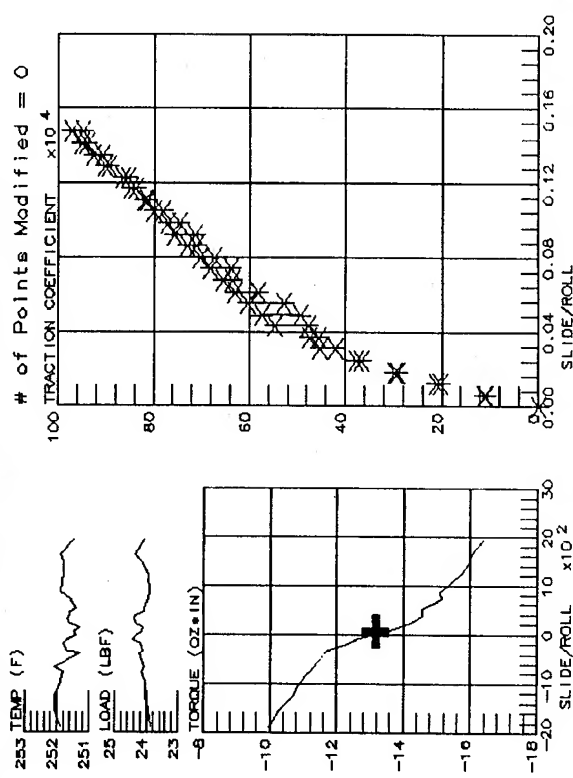
CH 89-191 Fomblin Z-25 Base Fluid #128
250F 4LBF 310RPM #8 FILE: ch250m



CH 89-191 Fomblin Z-25 Base Fluid #127
250F 11LBF 310RPM #7 FILE: ch250m

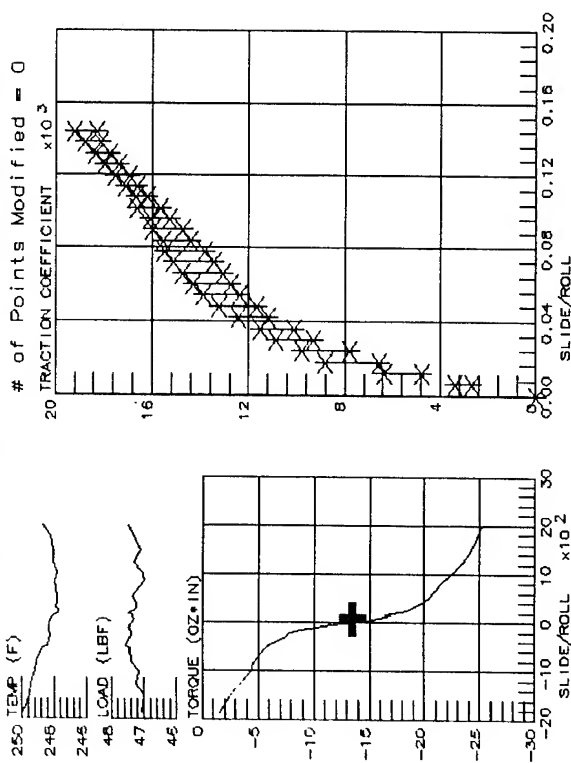


CH 89-191 Fomblin Z-25 Base Fluid #128
250F 25LBF 310RPM #8 FILE: ch250m

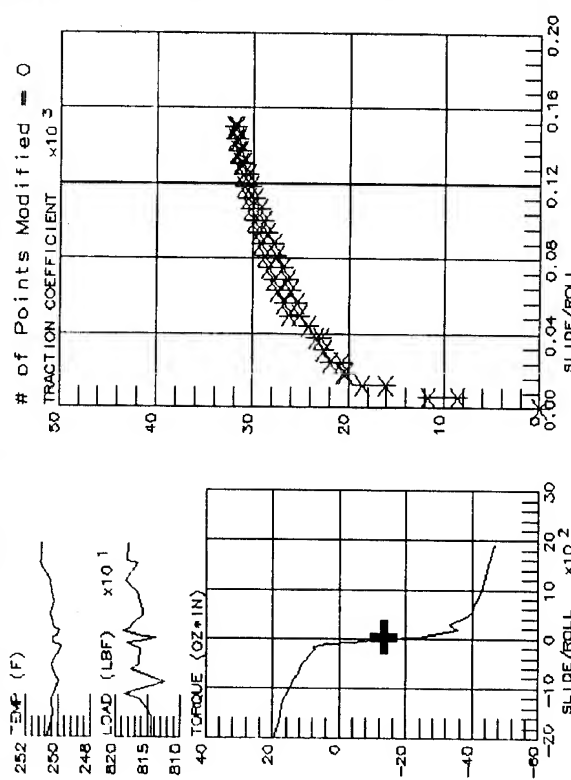


TRACTION DATA

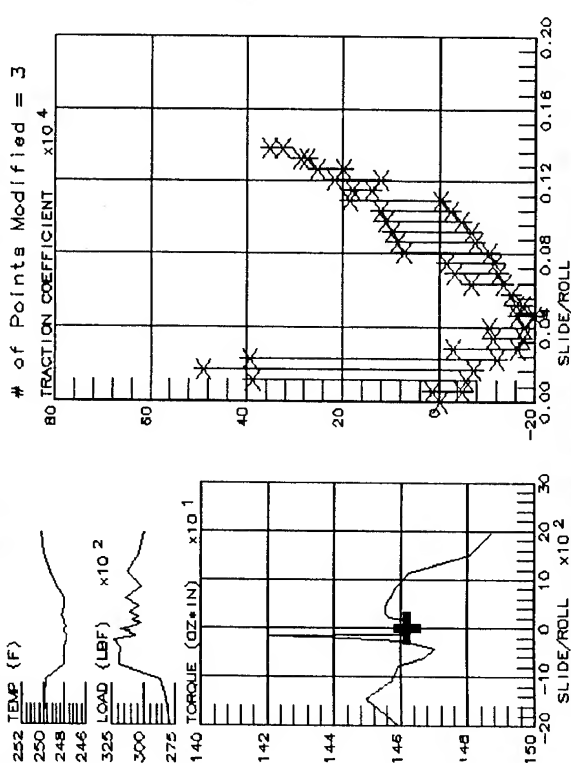
CH 89-191 Fomblin Z-25 Base Fluid #129
250F 48LBF 310RPM #9 FILE: ch250m



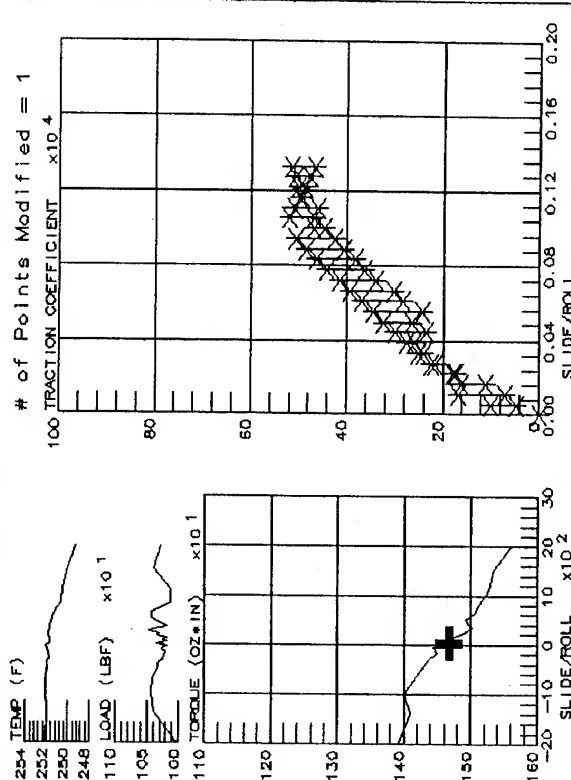
CH 89-191 Fomblin Z-25 Base Fluid #130
250F 82LBF 310RPM #10 FILE: ch250m



CH 89-191 Fomblin Z-25 Base Fluid #131
250F 4LBF 636RPM #11 FILE: ch250m



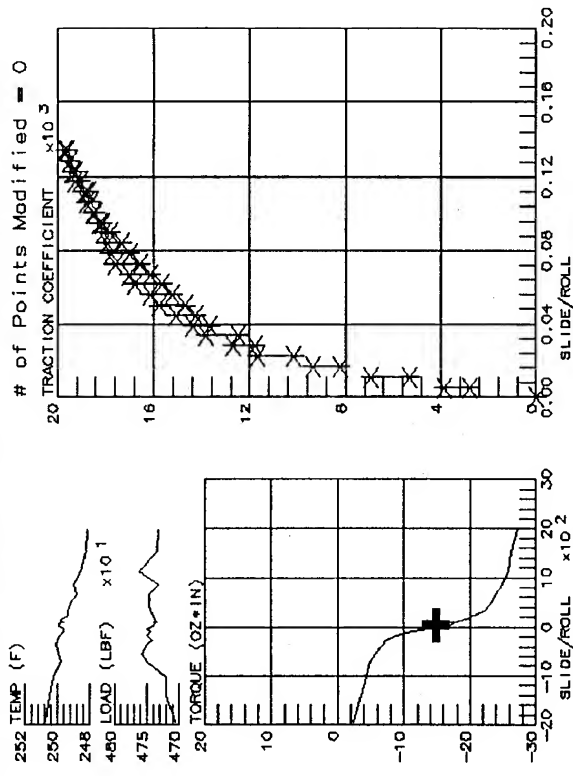
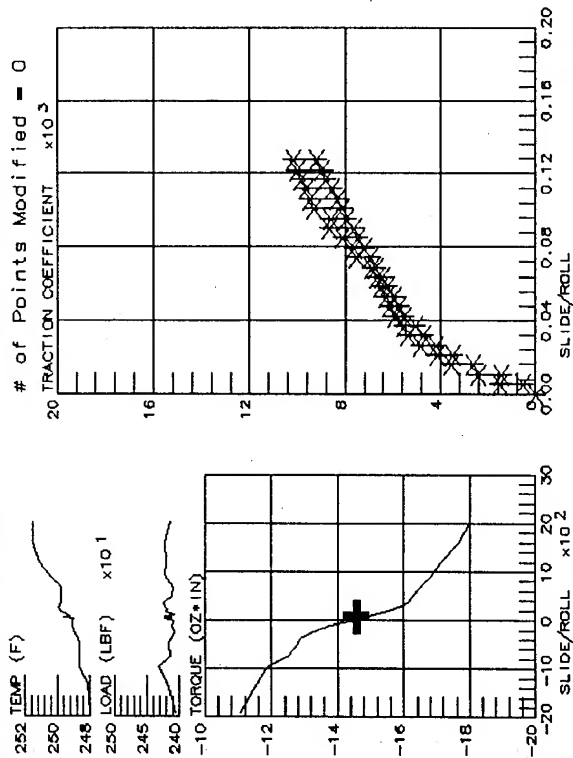
CH 89-191 Fomblin Z-25 Base Fluid #132
250F 11LBF 636RPM #12 FILE: ch250m



TRACTION DATA

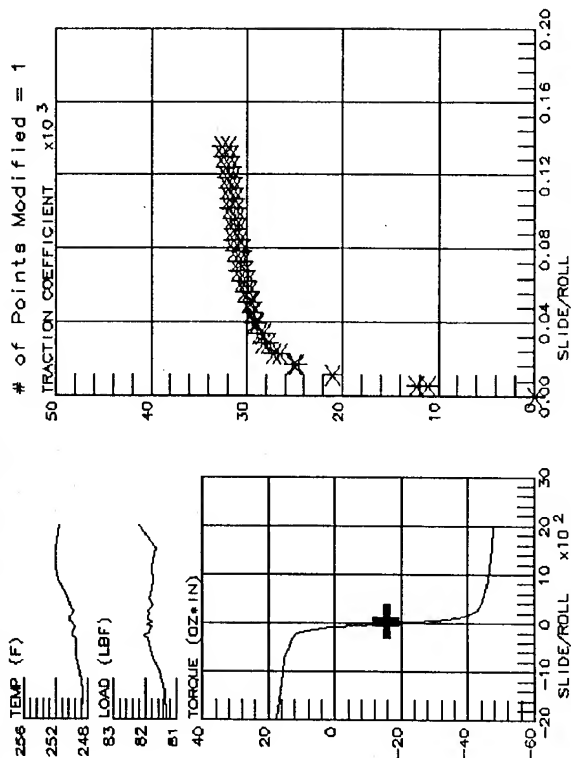
CH 89-191 Fomblin Z-25 Base Fluid
250F 25LBF 636RPM #13 FILE: ch250m

#133 # of Points Modified = 0



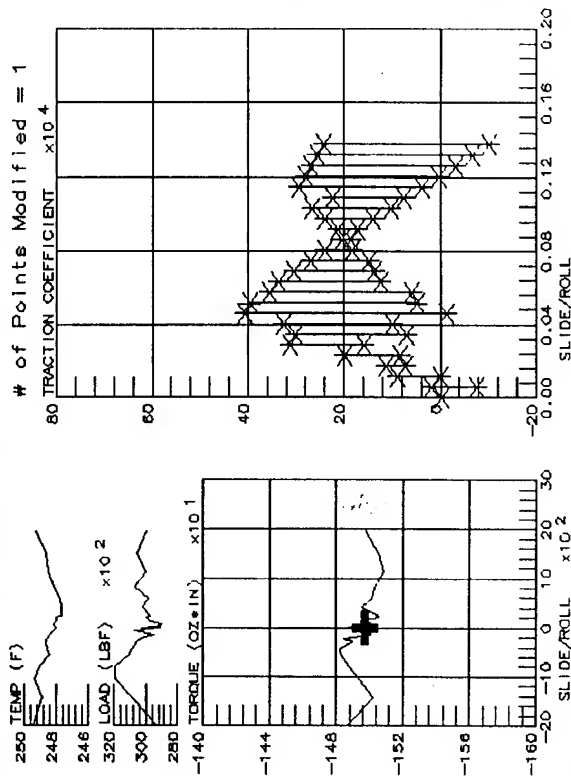
CH 89-191 Fomblin Z-25 Base Fluid
250F 82LBF 636RPM #15 FILE: ch250m

#135 # of Points Modified = 1

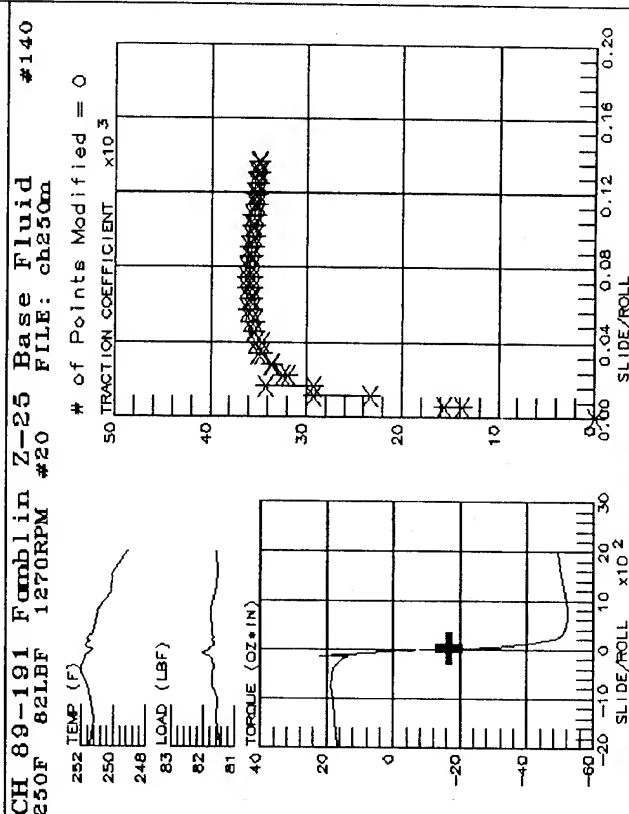
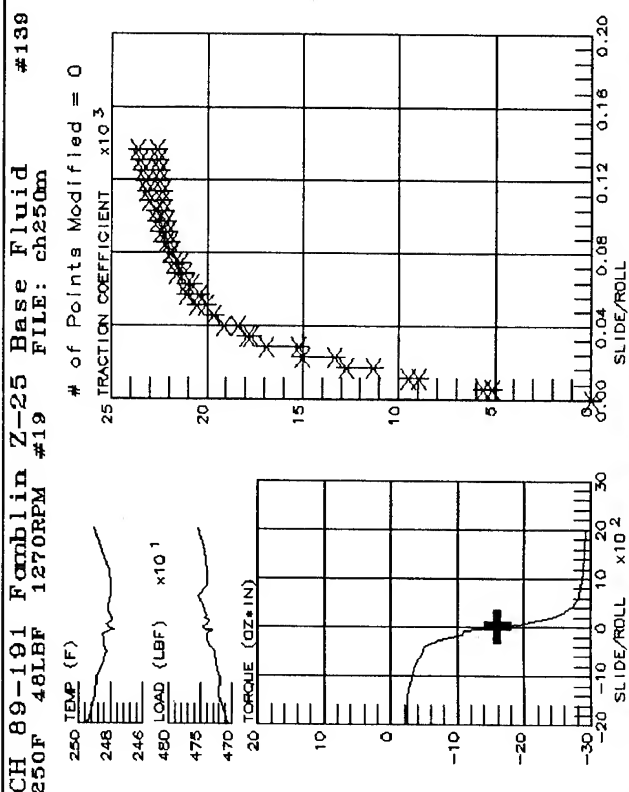
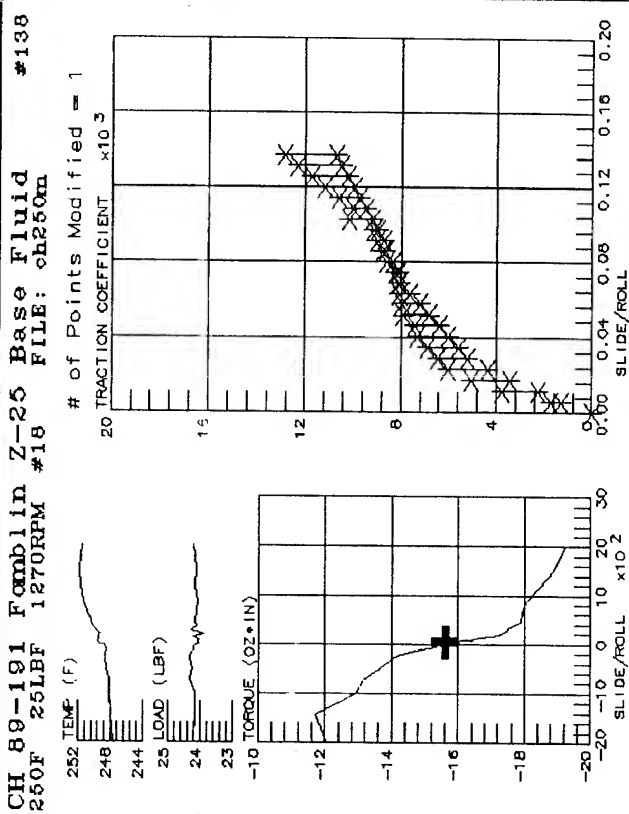
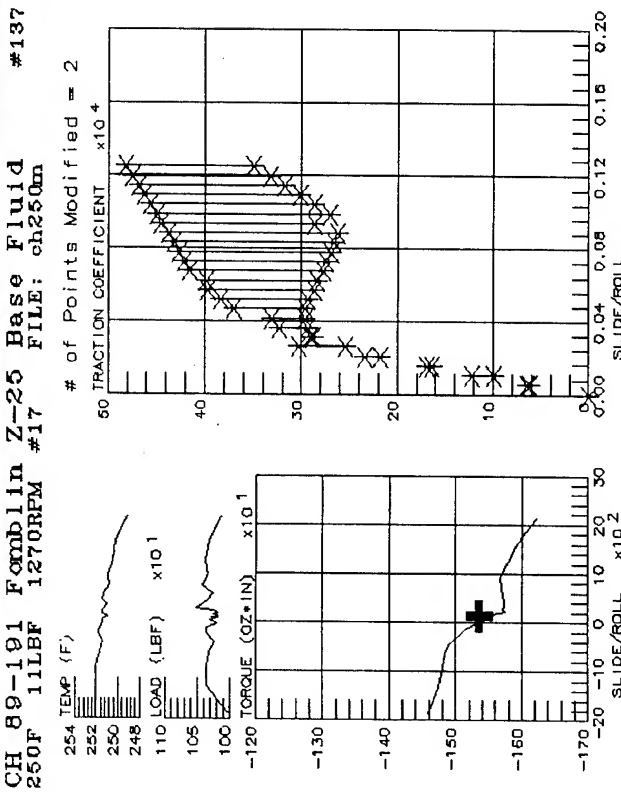


CH 89-191 Fomblin Z-25 Base Fluid
250F 4LBF 1270RPM #16 FILE: ch250m

#136 # of Points Modified = 1



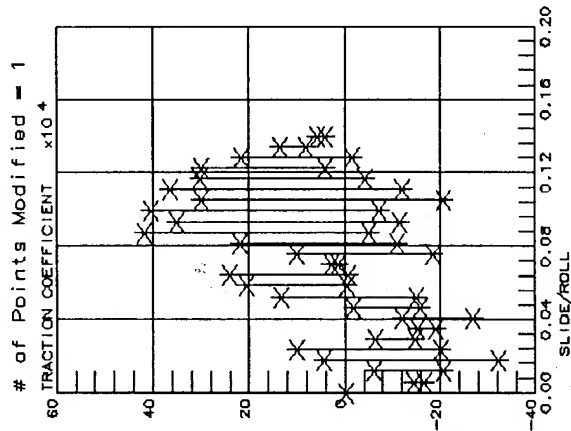
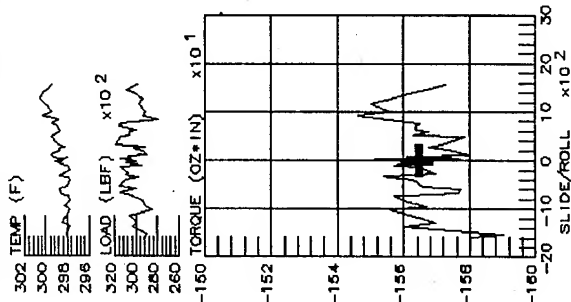
TRACTION DATA



TRACTION DATA

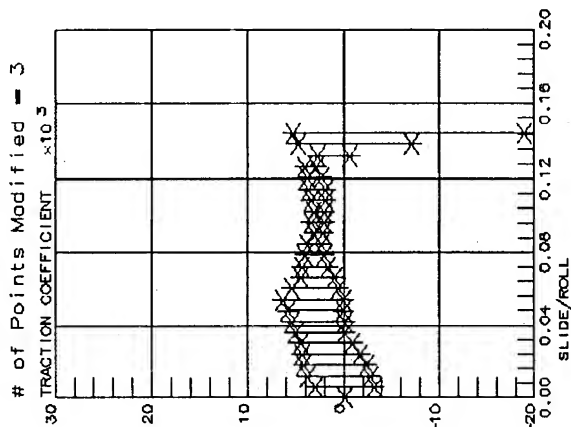
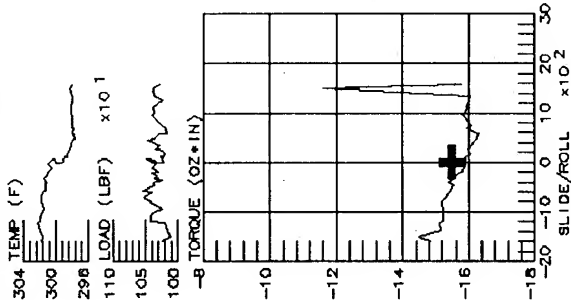
CH 89-191 Fomblin Z-25 Base Fluid #141
300F 4LBF 2550RPM #1 FILE: ch300h

of Points Modified = 1



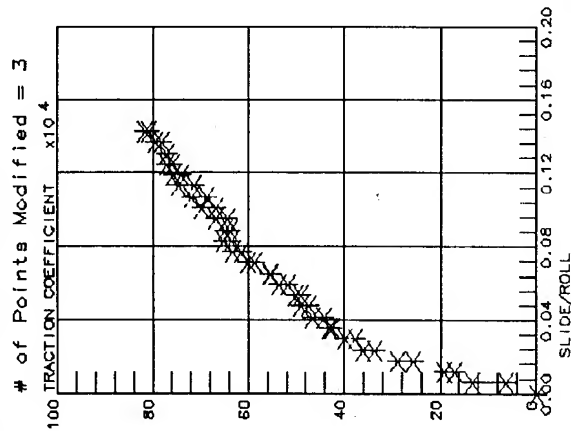
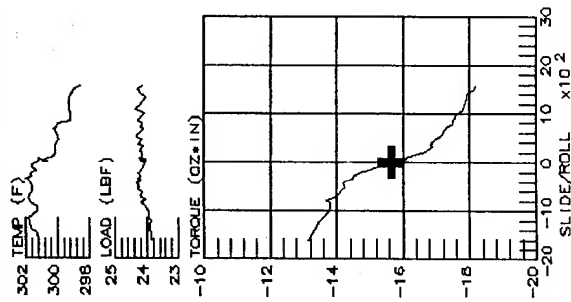
CH 89-191 Fomblin Z-25 Base Fluid #142
300F 11LBF 2550RPM #2 FILE: ch300h

of Points Modified = 3



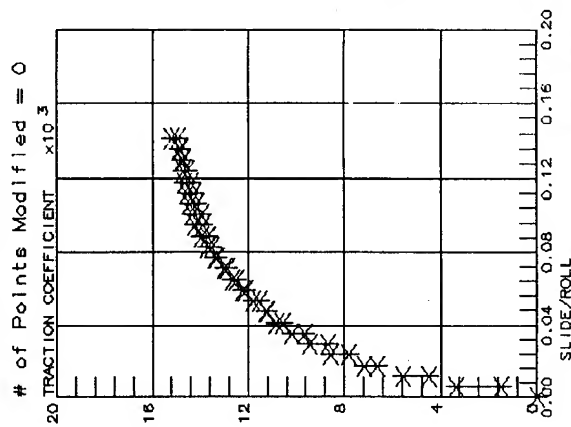
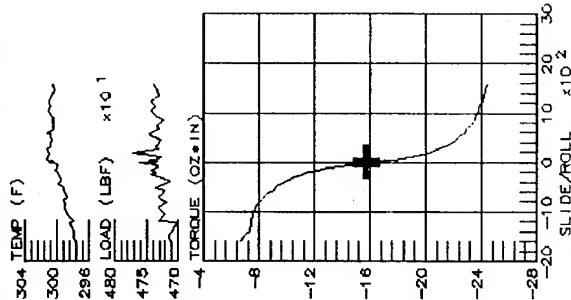
CH 89-191 Fomblin Z-25 Base Fluid #143
300F 25LBF 2550RPM #3 FILE: ch300h

of Points Modified = 3



CH 89-191 Fomblin Z-25 Base Fluid #144
300F 48LBF 2550RPM #4 FILE: ch300h

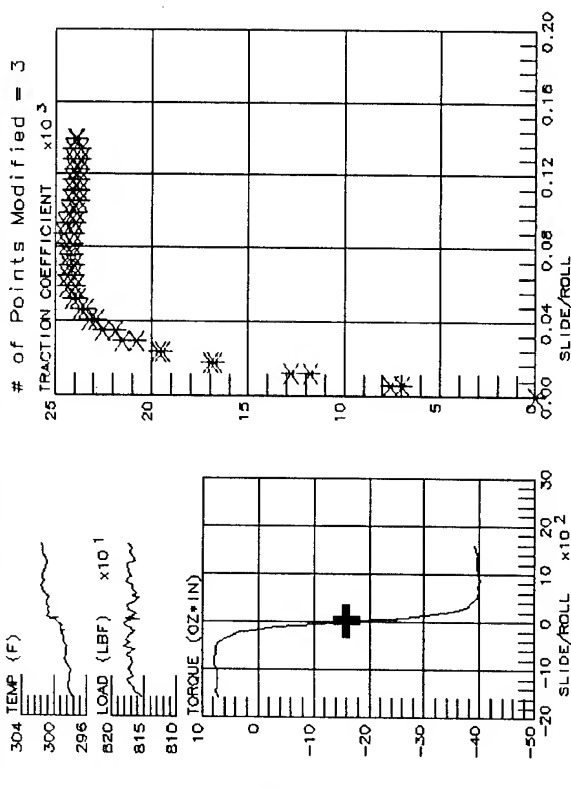
of Points Modified = 0



TRACTION DATA

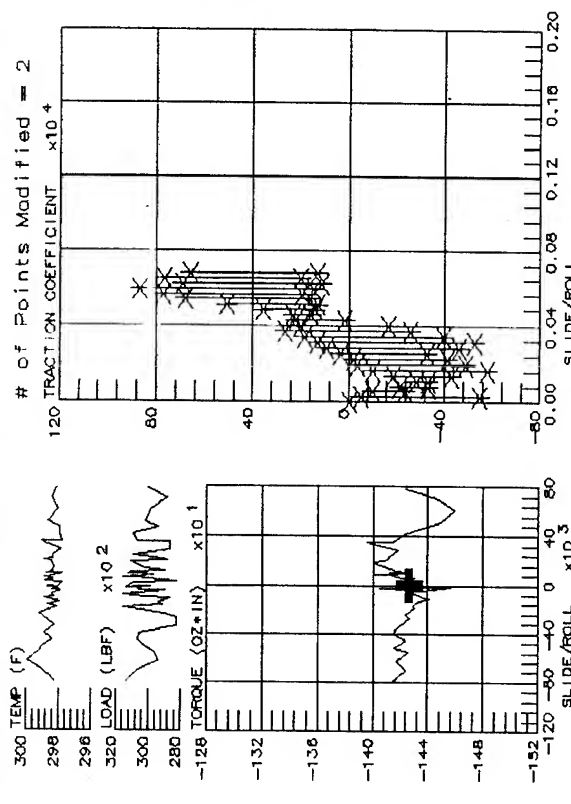
CH 89-191 Foamblin Z-25 Base Fluid #145
300F 82LBF 2550RPM #5 FILE: ch300h

of Points Modified = 3



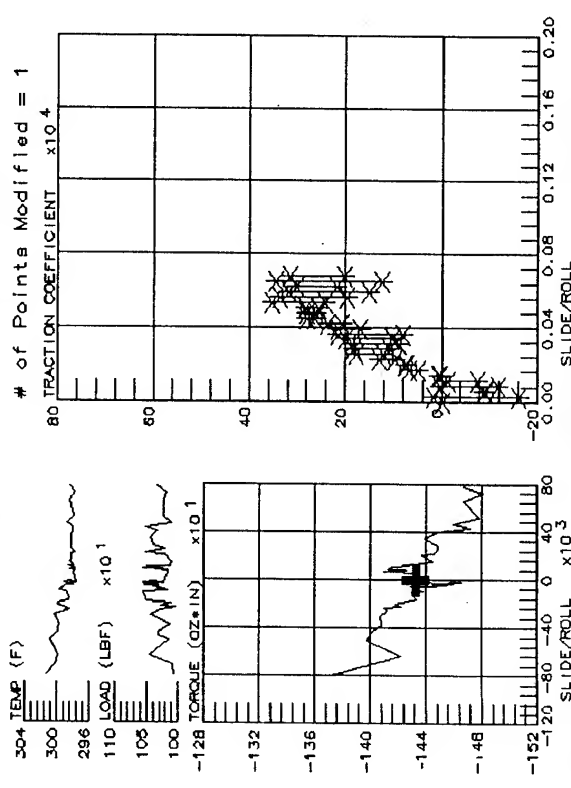
CH 89-191 Foamblin Z-25 Base Fluid #148
300F 4LBF 5100RPM #6 FILE: ch300h

of Points Modified = 2



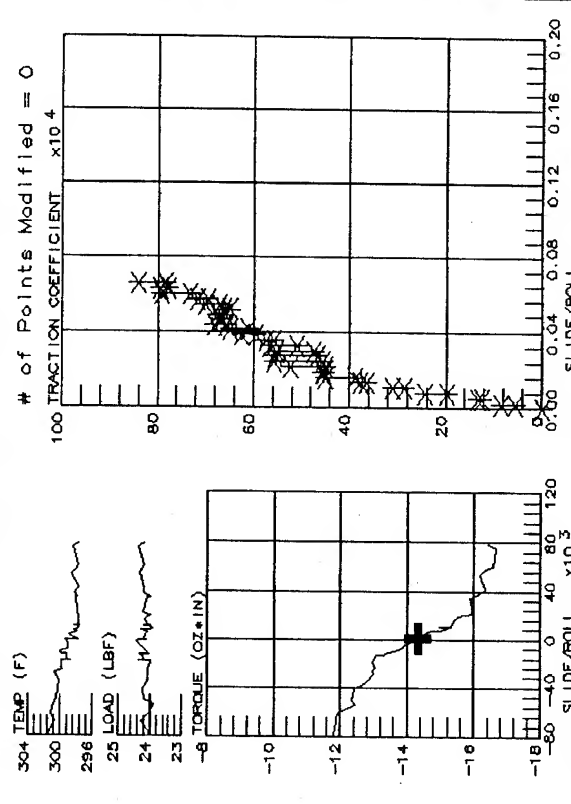
CH 89-191 Foamblin Z-25 Base Fluid #147
300F 11LBF 5100RPM #7 FILE: ch300h

of Points Modified = 1



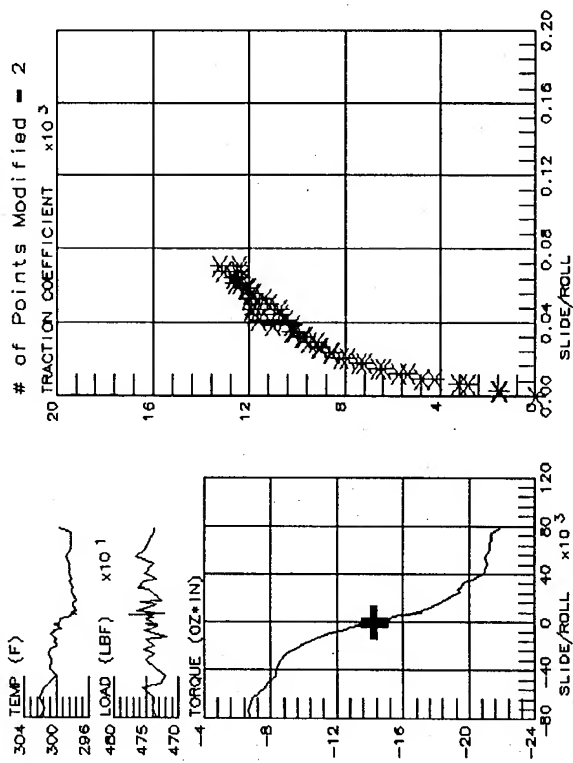
CH 89-191 Foamblin Z-25 Base Fluid #148
300F 25LBF 5100RPM #8 FILE: ch300h

of Points Modified = 0

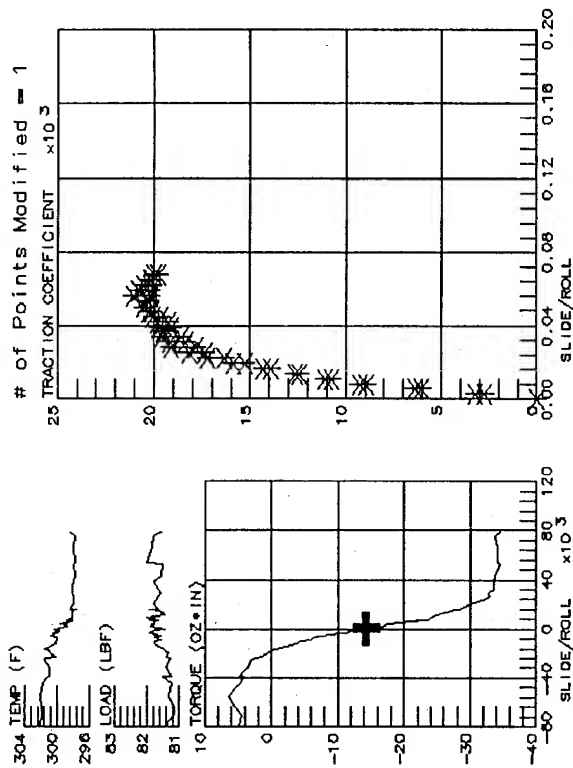


TRACTION DATA

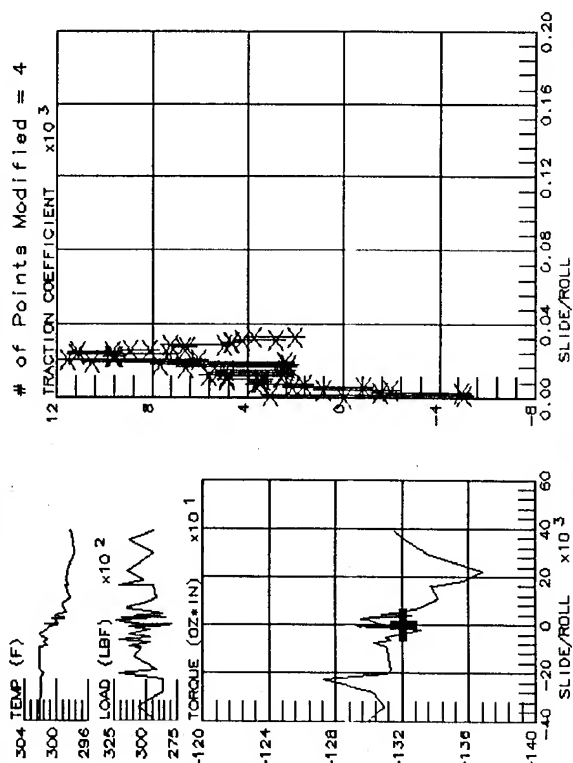
CH 89-191 Fomblin Z-25 Base Fluid #149
300F 48LBF 5100RPM #9 FILE: ch300h



CH 89-191 Fomblin Z-25 Base Fluid #150
300F 82LBF 5100RPM #10 FILE: ch300h

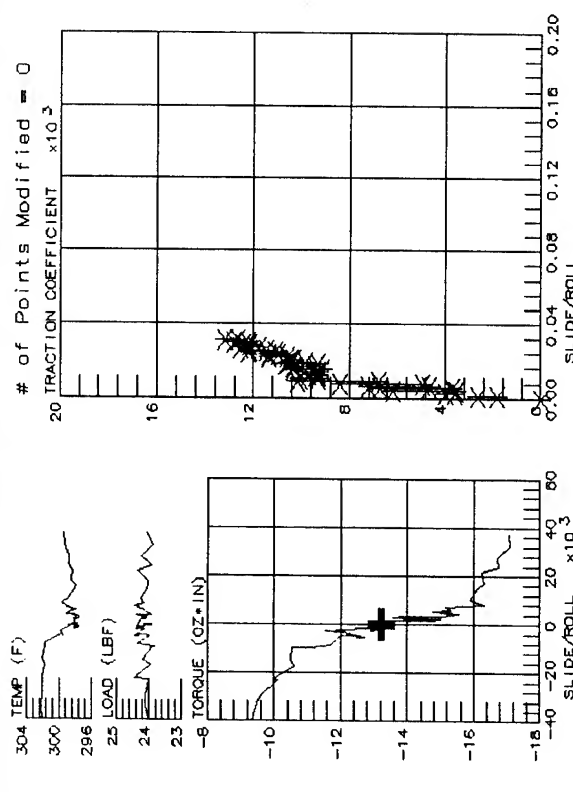


CH 89-191 Fomblin Z-25 Base Fluid #151
300F 4LBF 10150RPM #11 FILE: ch300h

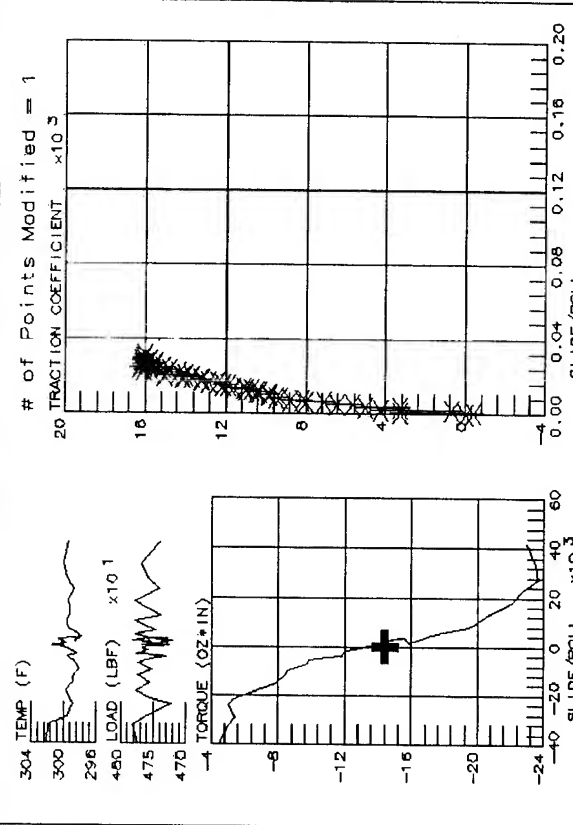


TRACTION DATA

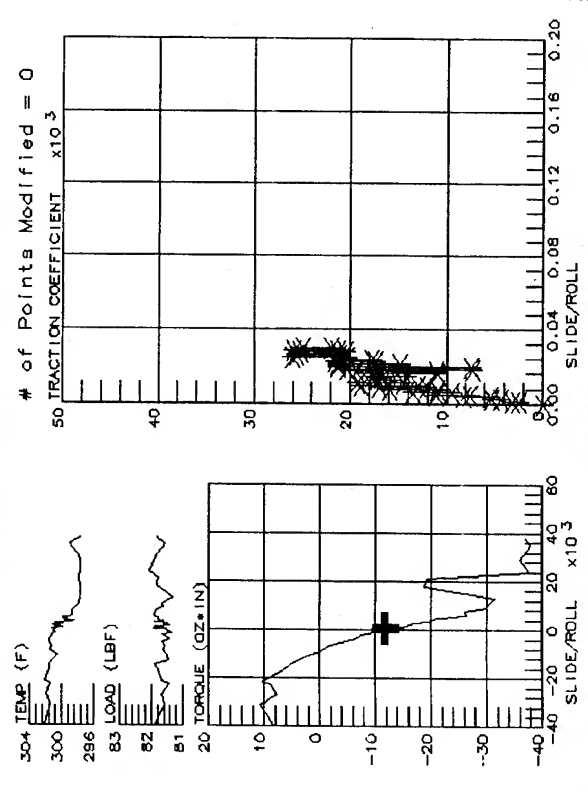
CH 89-191 Fomblin Z-25 Base Fluid #153
300F 25LBF 10150RPM #13 FILE: ch300h



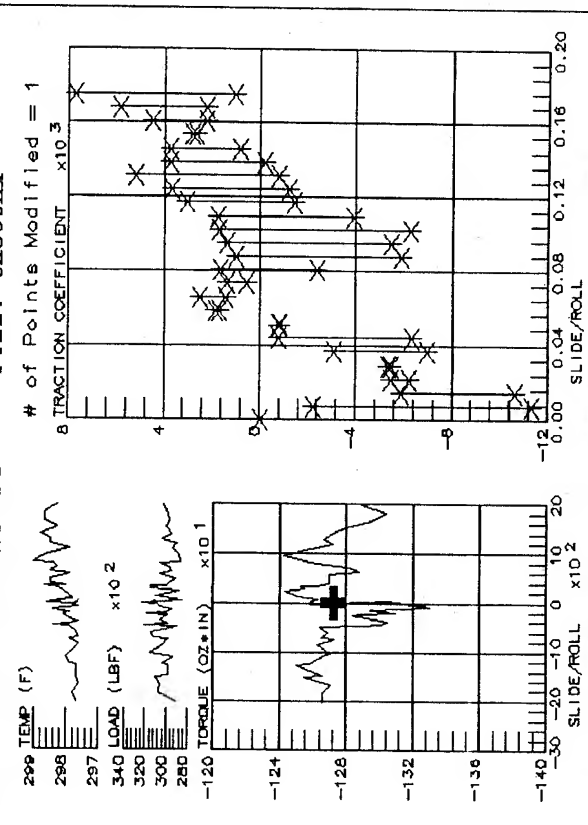
CH 89-191 Fomblin Z-25 Base Fluid #154
300F 48LBF 10150RPM #14 FILE: ch300h



CH 89-191 Fomblin Z-25 Base Fluid #155
300F 82LBF 10150RPM #15 FILE: ch300h



CH 89-191 Fomblin Z-25 Base Fluid #156
300F 41LBF 2550RPM #1 FILE: ch300hx

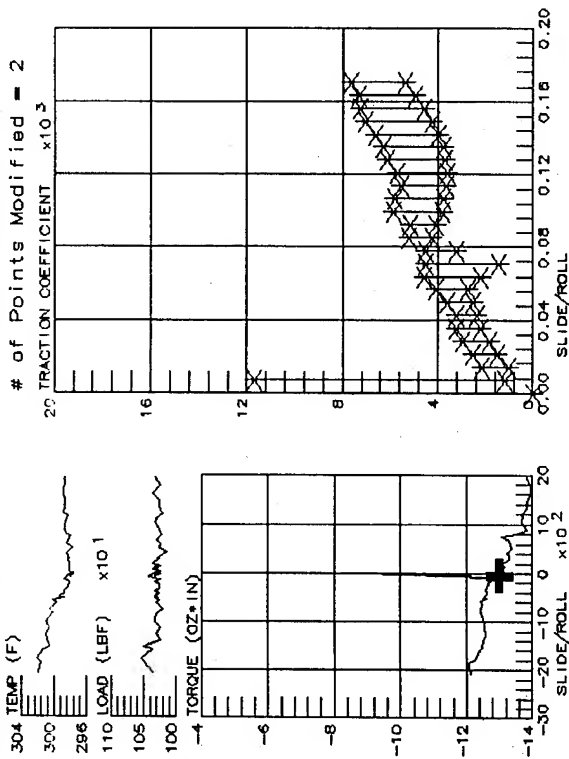


TRACTION DATA

CH 89-191 Fomblin Z-25 Base Fluid
300F 11LBF 2550RPM #2 FILE: ch300hx

#157

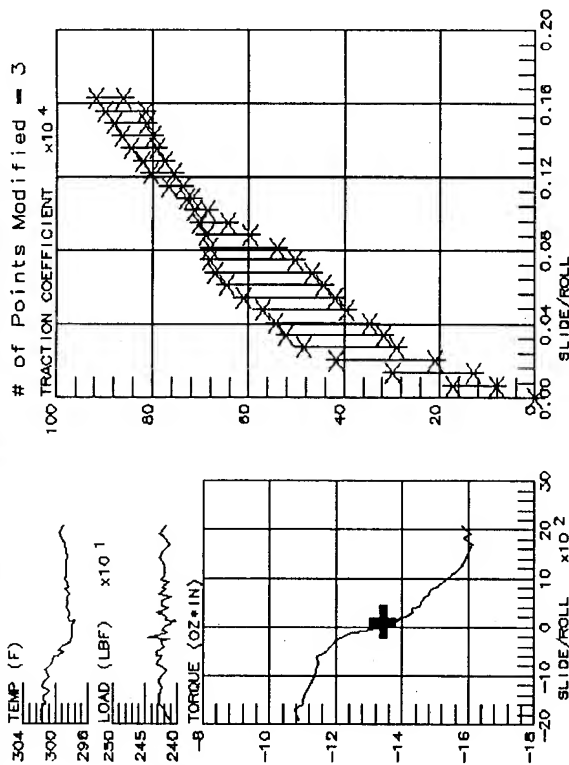
of Points Modified = 2



CH 89-191 Fomblin Z-25 Base Fluid
300F 25LBF 2550RPM #3 FILE: ch300hx

#158

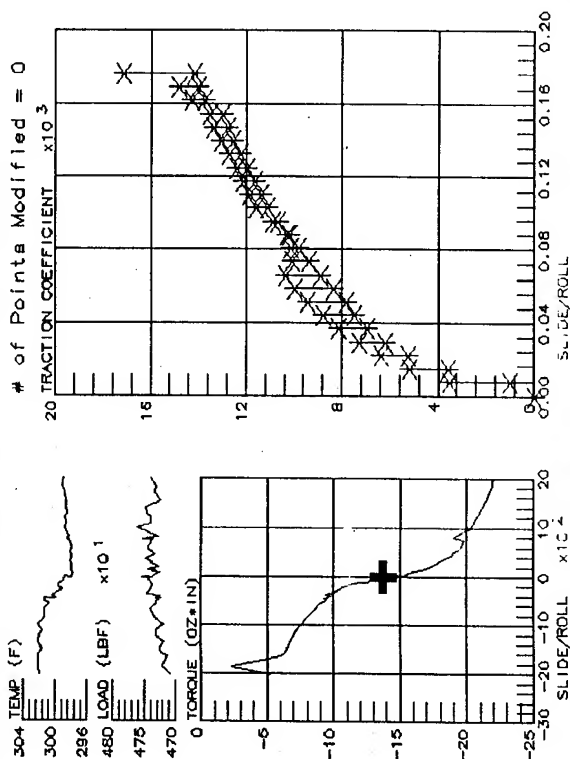
of Points Modified = 3



CH 89-191 Fomblin Z-25 Base Fluid
300F 46LBF 2550RPM #4 FILE: ch300hx

#159

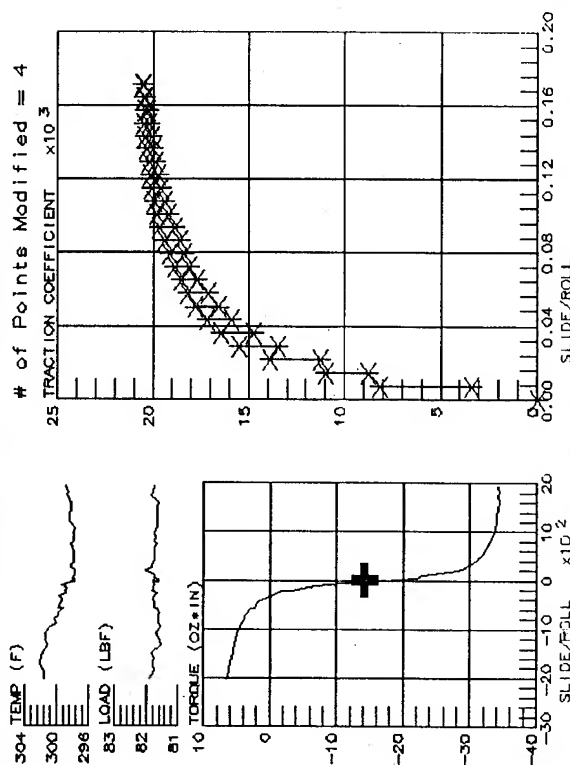
of Points Modified = 0



CH 89-191 Fomblin Z-25 Base Fluid
300F 82LBF 2550RPM #5 FILE: ch300hx

#160

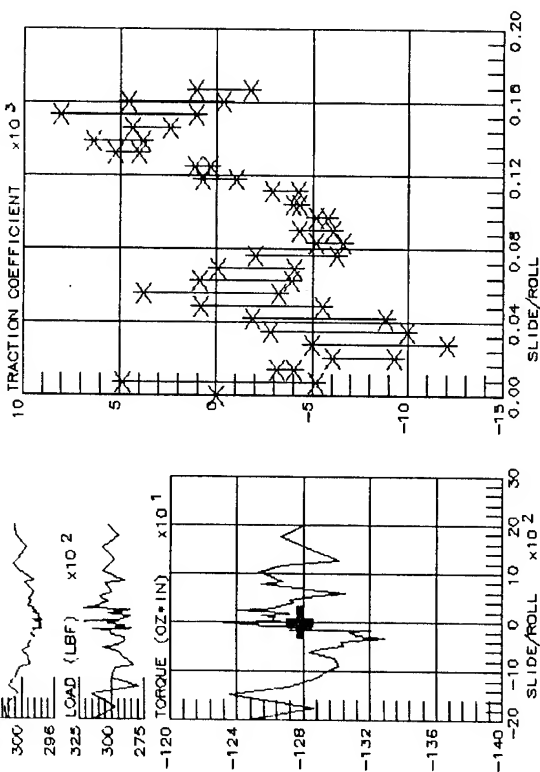
of Points Modified = 4



TRACTION DATA

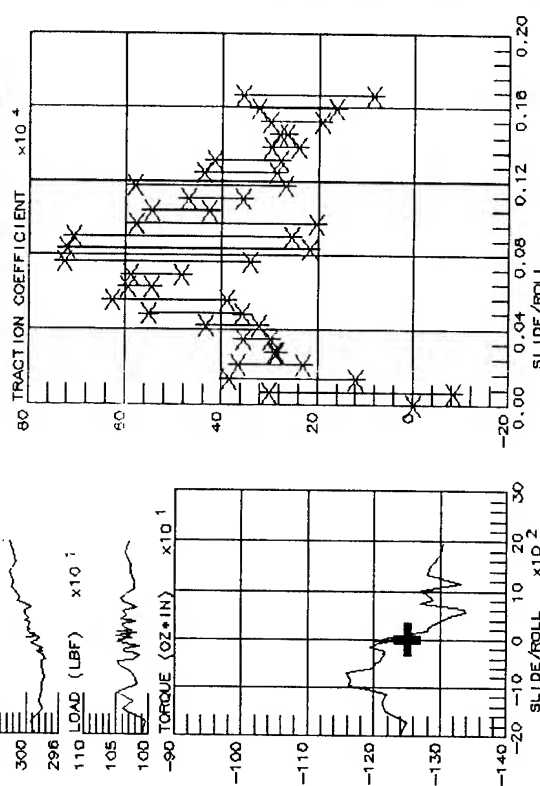
CH 89-191 Fomblin Z-25 Base Fluid #161
300F 4LBF 5100RPM #6 FILE: ch300hx

of Points Modified = 2



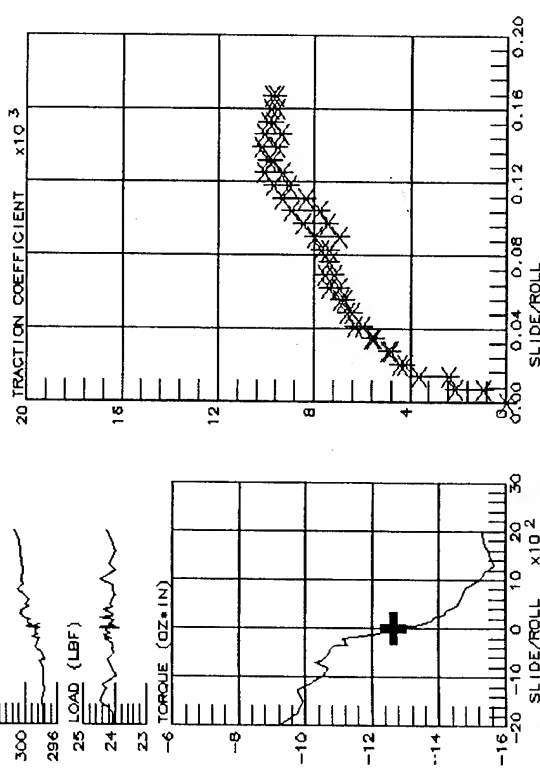
CH 89-191 Fomblin Z-25 Base Fluid #162
300F 11LBF 5100RPM #7 FILE: ch300hx

of Points Modified = 0



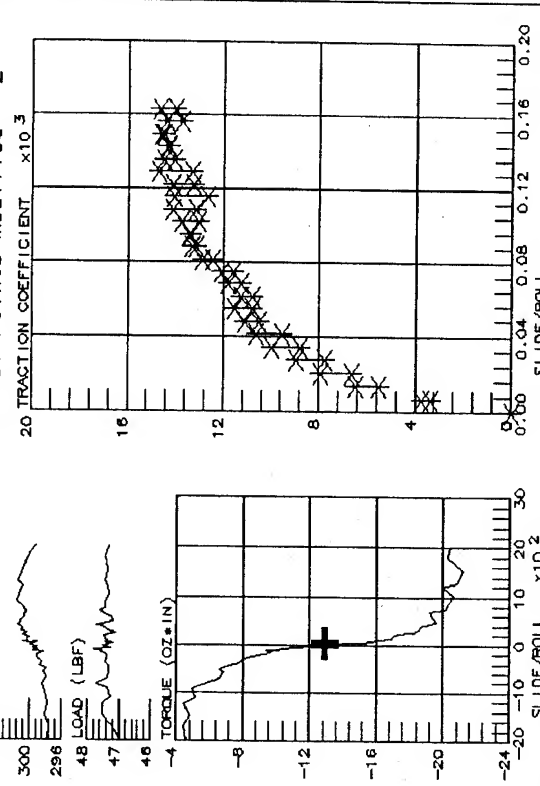
CH 89-191 Fomblin Z-25 Base Fluid #163
300F 25LBF 5100RPM #8 FILE: ch300hx

of Points Modified = 2



CH 89-191 Fomblin Z-25 Base Fluid #164
300F 48LBF 5100RPM #9 FILE: ch300hx

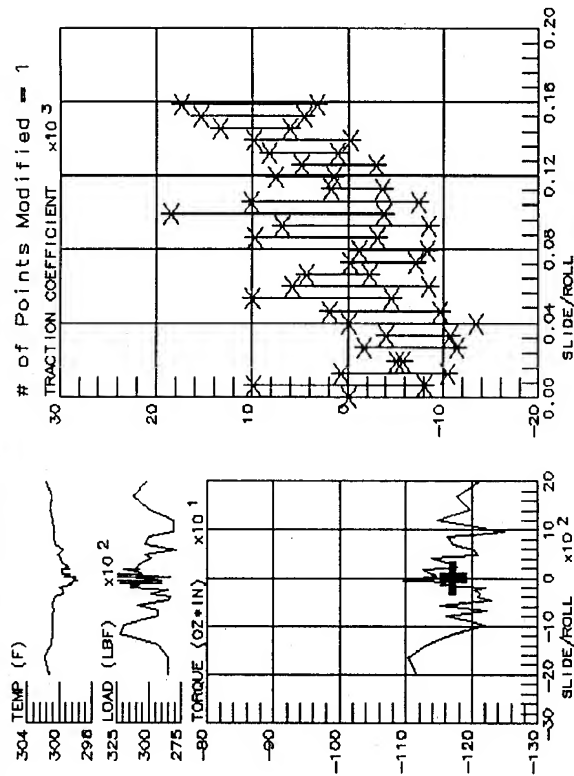
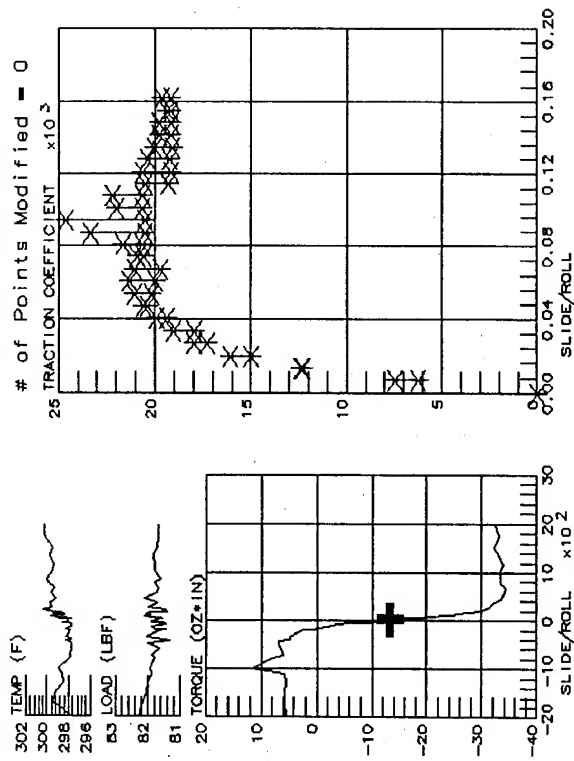
of Points Modified = 2



TRACTION DATA

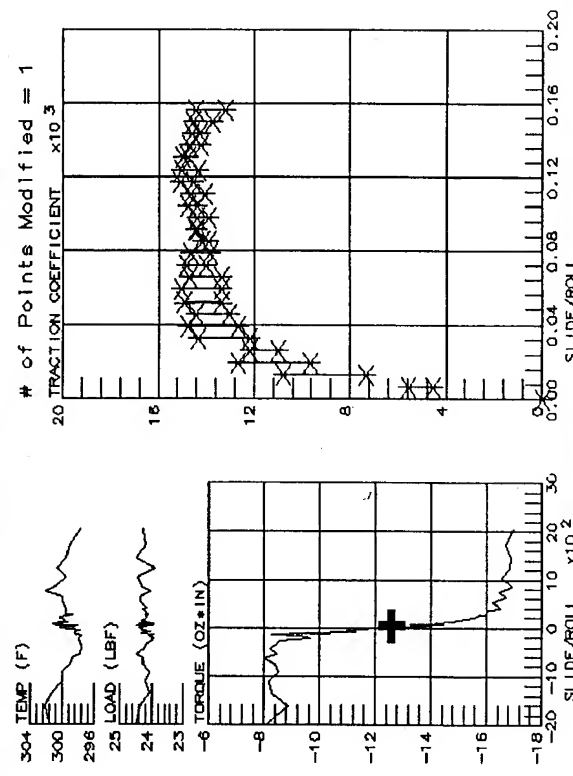
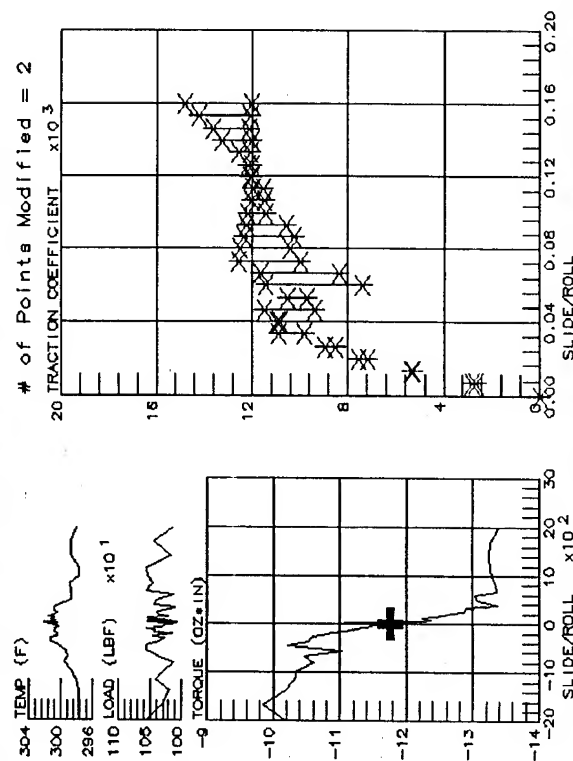
CH 89-191 Fomblin Z-25 Base Fluid
300F 82LBF 5100RPM #10 FILE: ch300hx

CH 89-191 Fomblin Z-25 Base Fluid
300F 4LBF 10150RPM #11 FILE: ch300hx



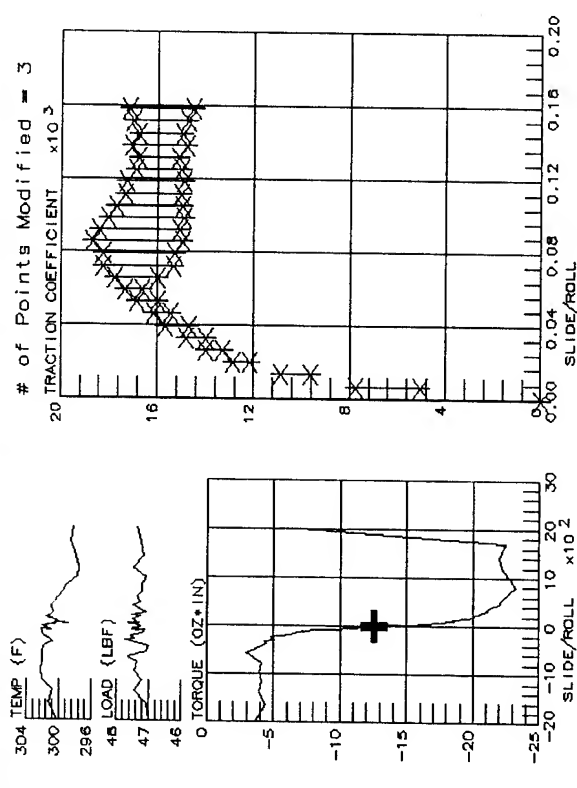
CH 89-191 Fomblin Z-25 Base Fluid
300F 111LBF 10150RPM #12 FILE: ch300hx

CH 89-191 Fomblin Z-25 Base Fluid
300F 25LBF 10150RPM #13 FILE: ch300hx

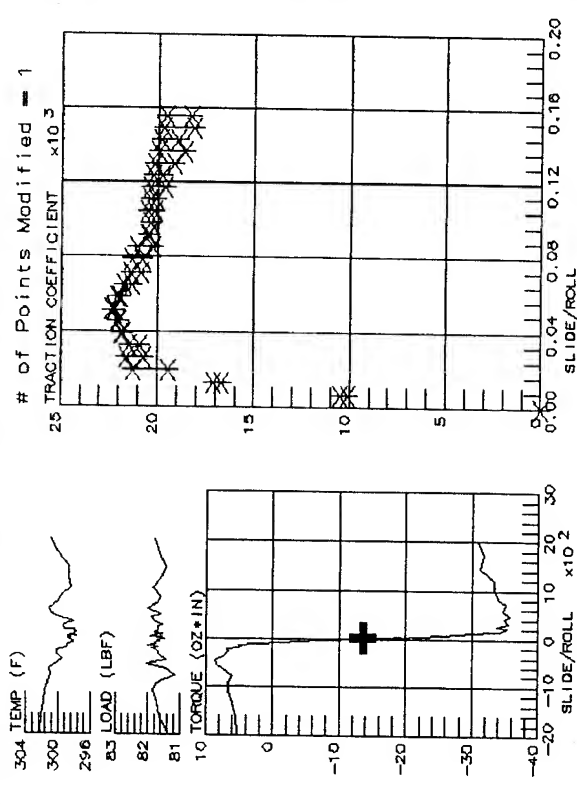


TRACTION DATA

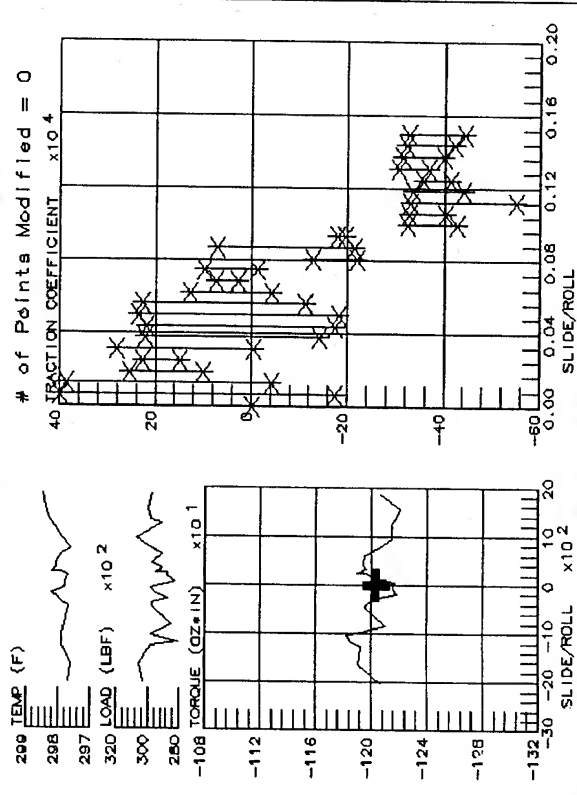
CH 89-191 Fomblin Z-25 Base Fluid #189
300F 49LBF 10150RPM #14 FILE: ch300hx



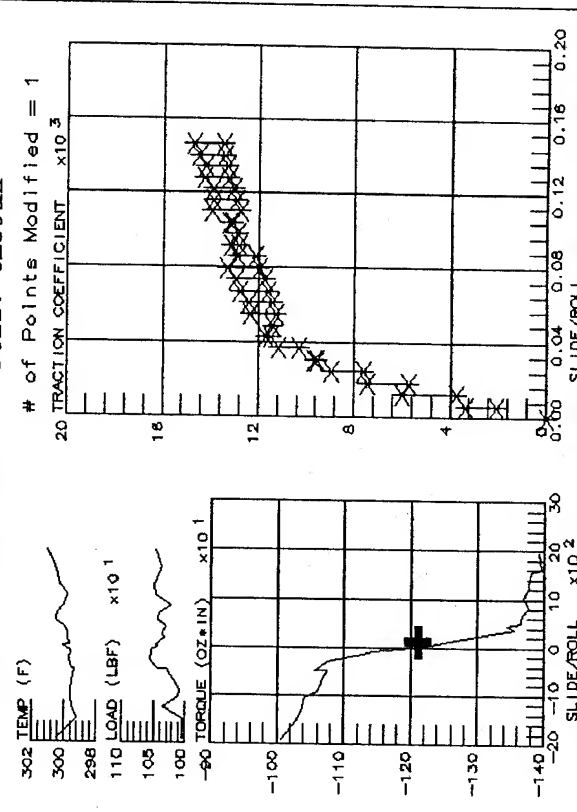
CH 89-191 Fomblin Z-25 Base Fluid #170
300F 82LBF 10150RPM #15 FILE: ch300hx



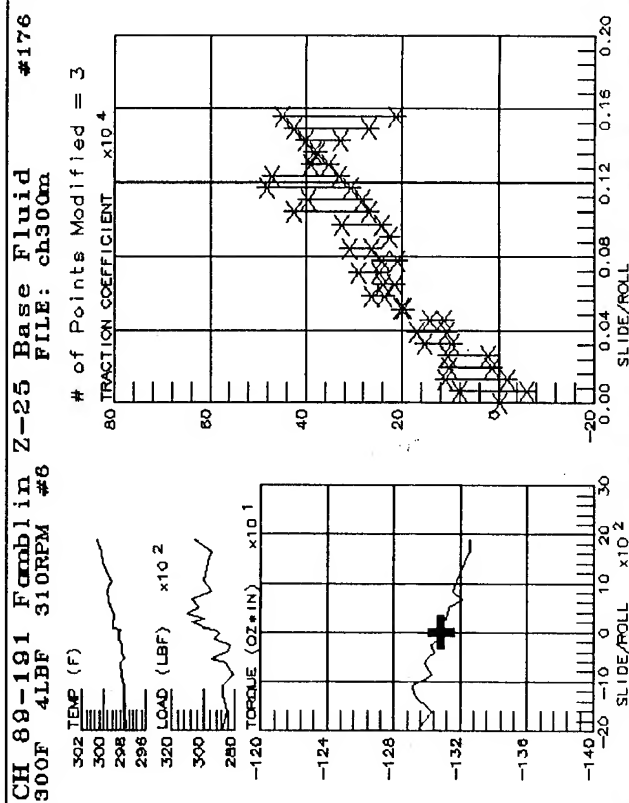
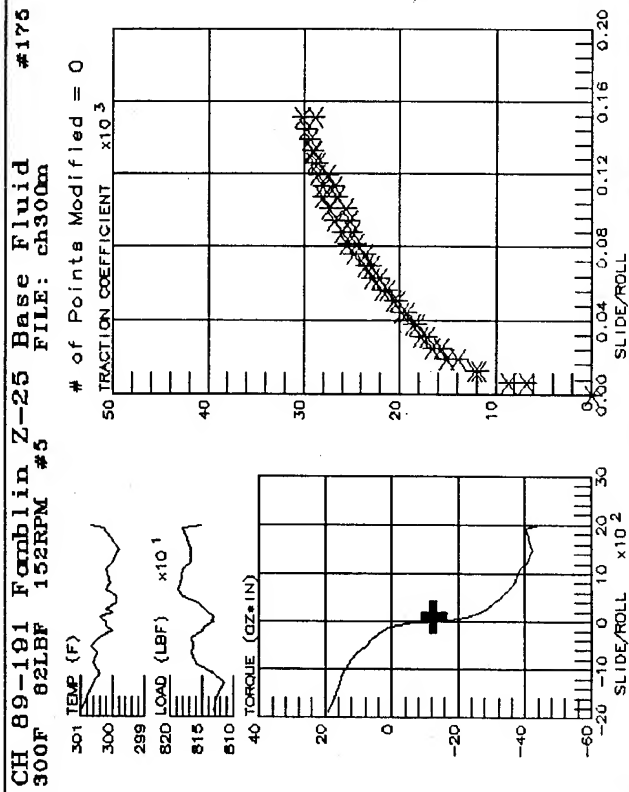
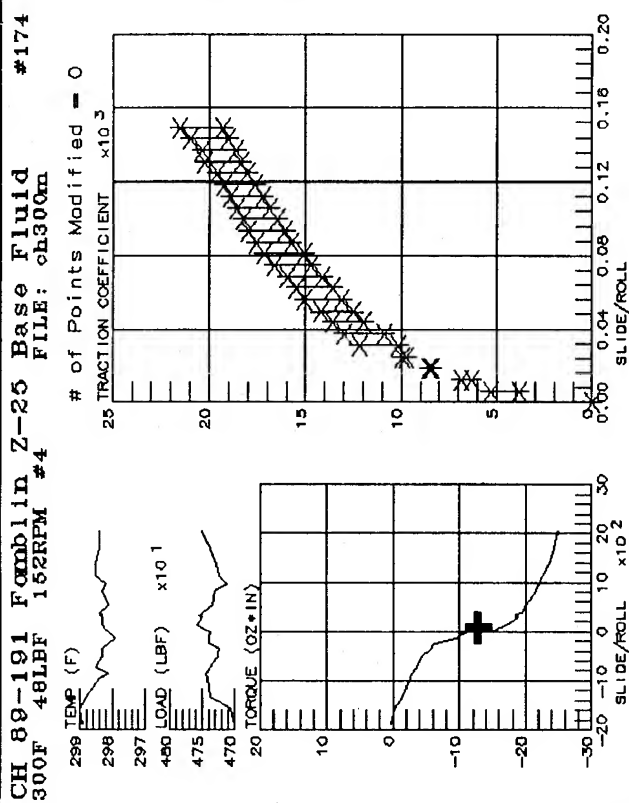
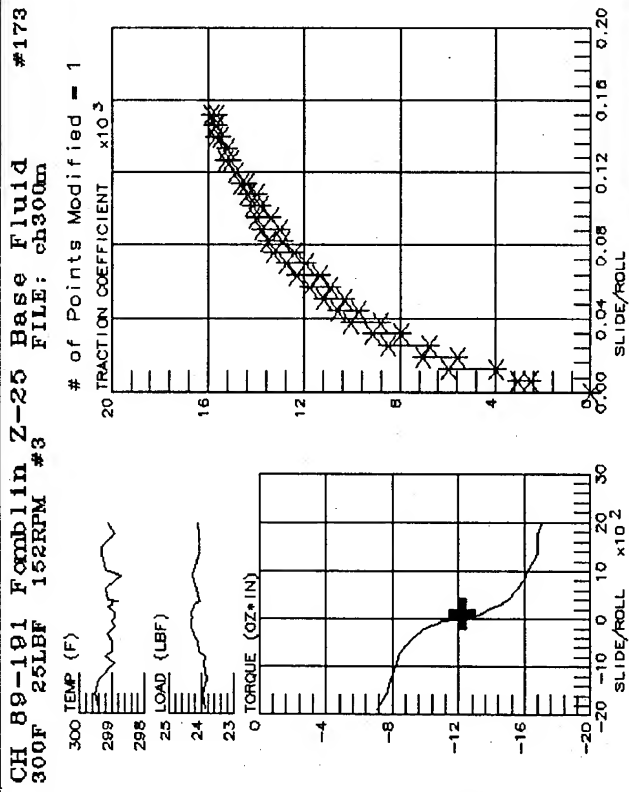
CH 89-191 Fomblin Z-25 Base Fluid #171
300F 4LBF 152RPM #1 FILE: ch300m



CH 89-191 Fomblin Z-25 Base Fluid #172
300F 11LBF 152RPM #2 FILE: ch300m



TRACTION DATA

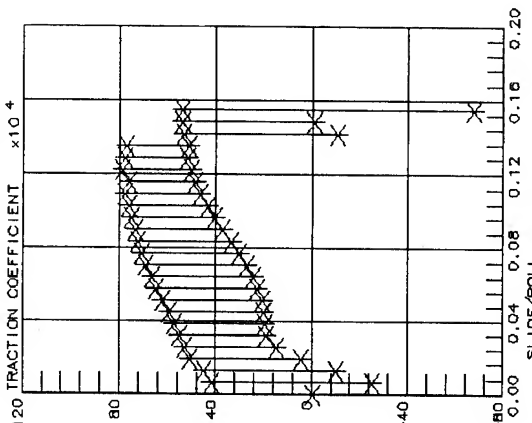
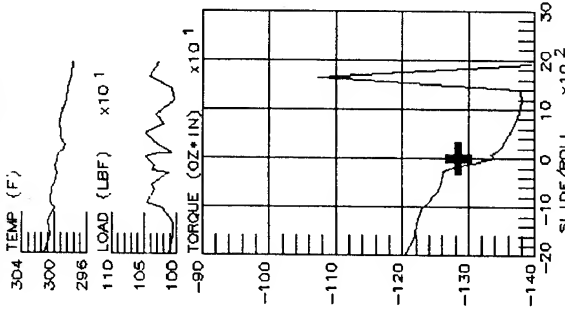


TRACTION DATA

CH 89-191 Fomblin Z-25 Base Fluid
300F 111BF 310RPM #7

#177

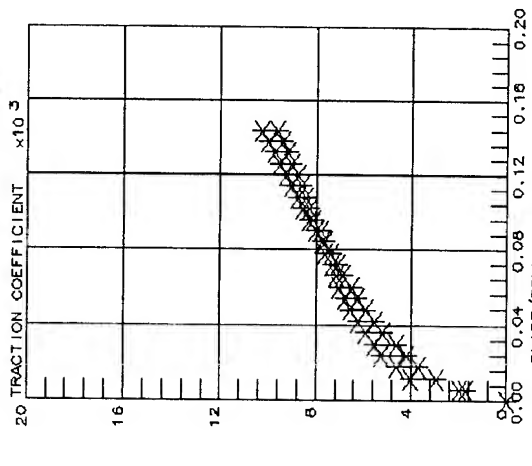
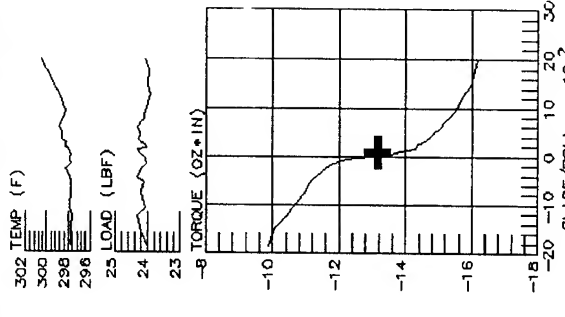
of Points Modified = 1



CH 89-191 Fomblin Z-25 Base Fluid
300F 25LBF 310RPM #8

#178

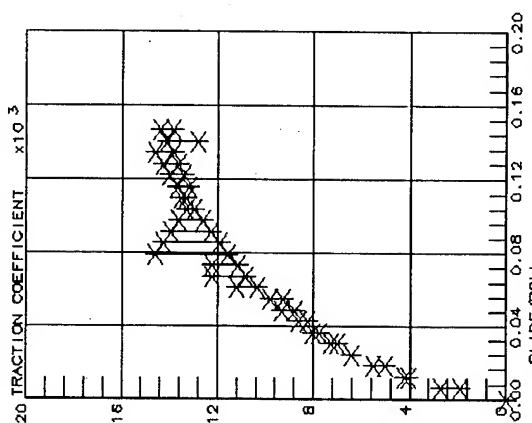
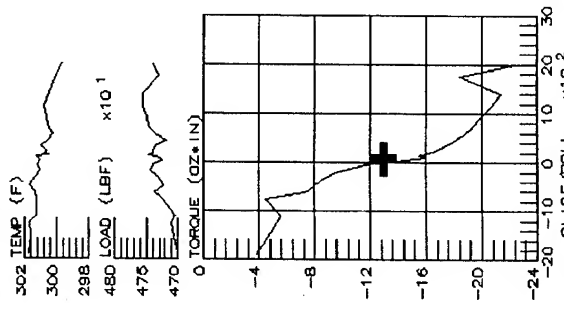
of Points Modified = 1



CH 89-191 Fomblin Z-25 Base Fluid
300F 48LBF 310RPM #9

#179

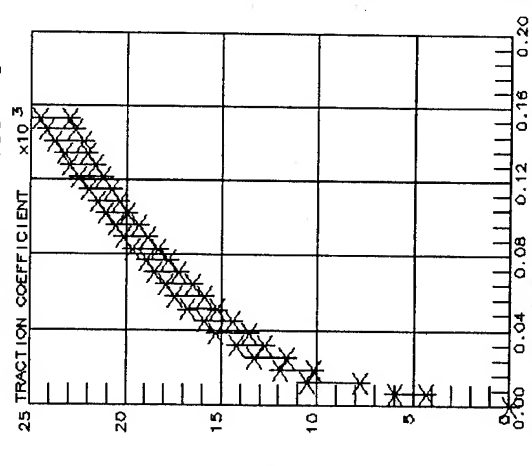
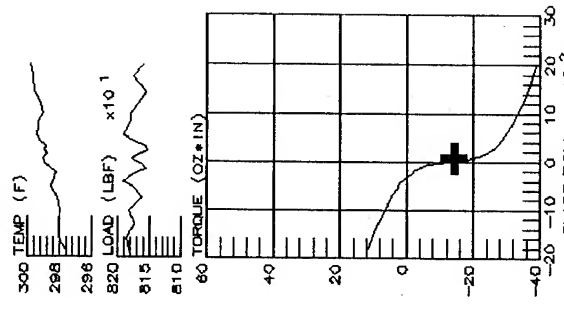
of Points Modified = 0



CH 89-191 Fomblin Z-25 Base Fluid
300F 82LBF 310RPM #10

#180

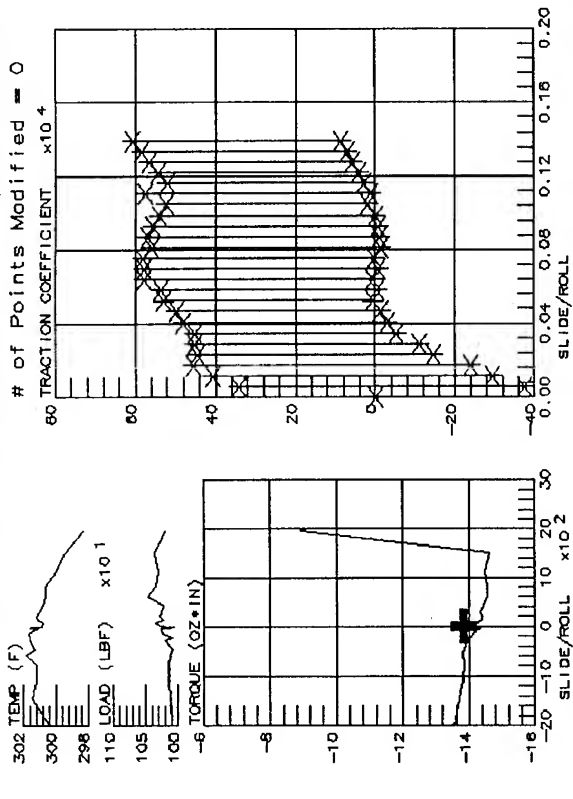
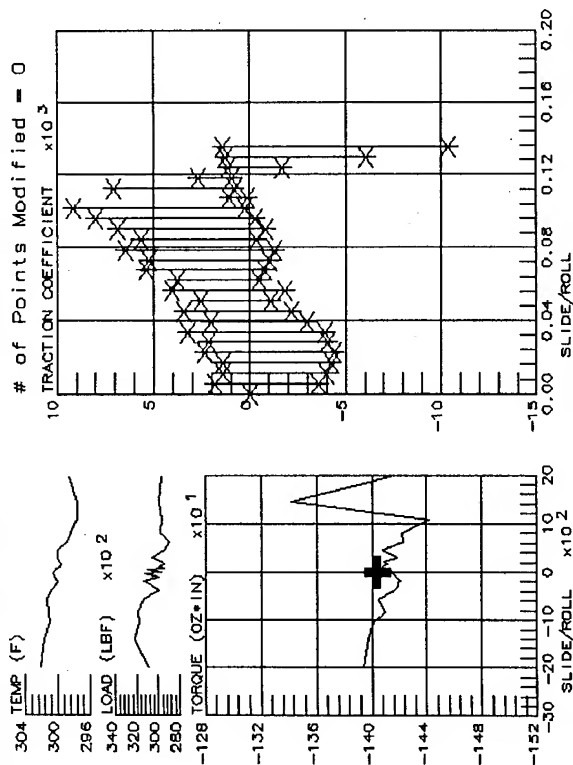
of Points Modified = 0



TRACTION DATA

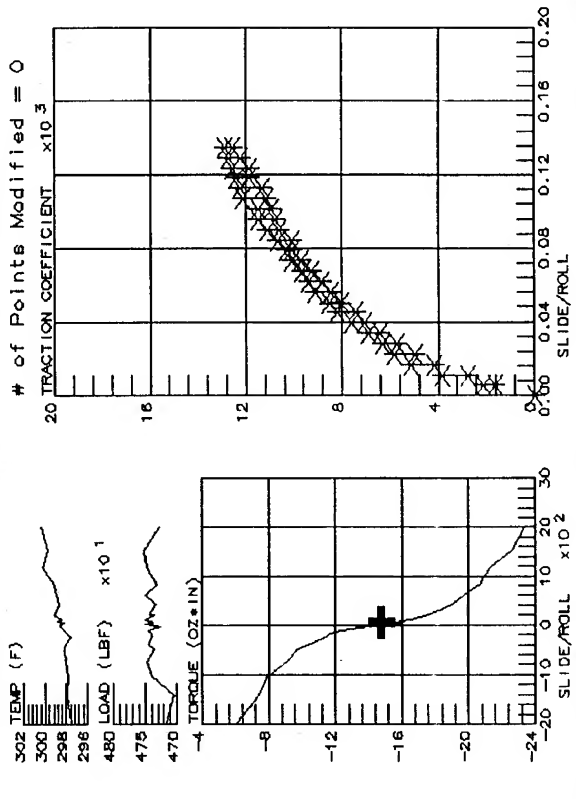
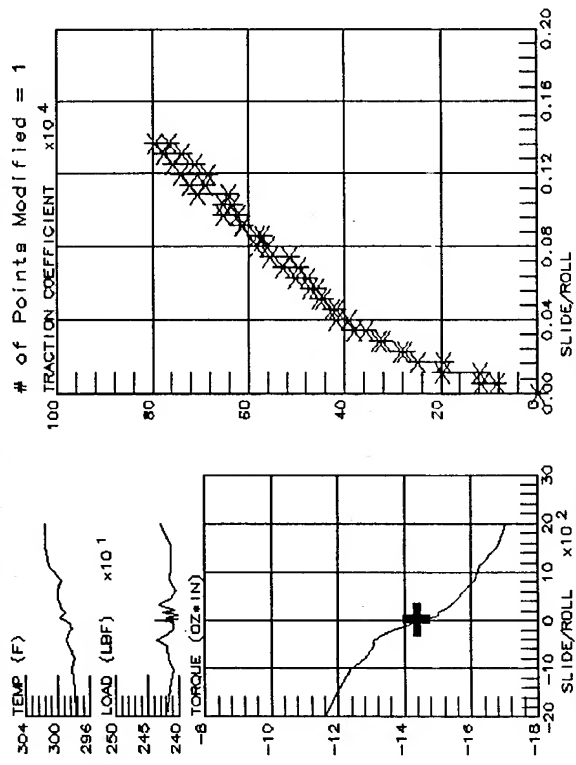
CH 89-191 Fomblin Z-25 Base Fluid
300F 4LBF 636RPM #11

CH 89-191 Fomblin Z-25 Base Fluid
300F 11LBF 636RPM #12

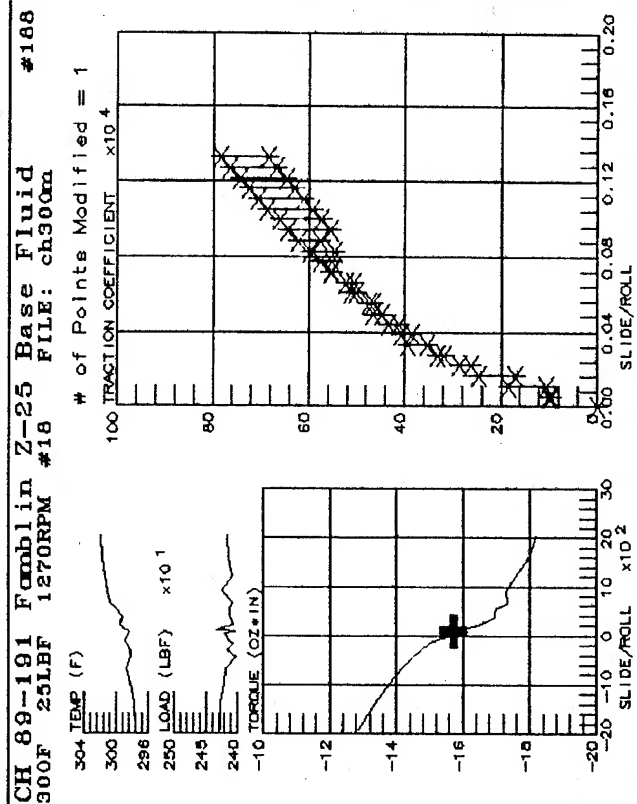
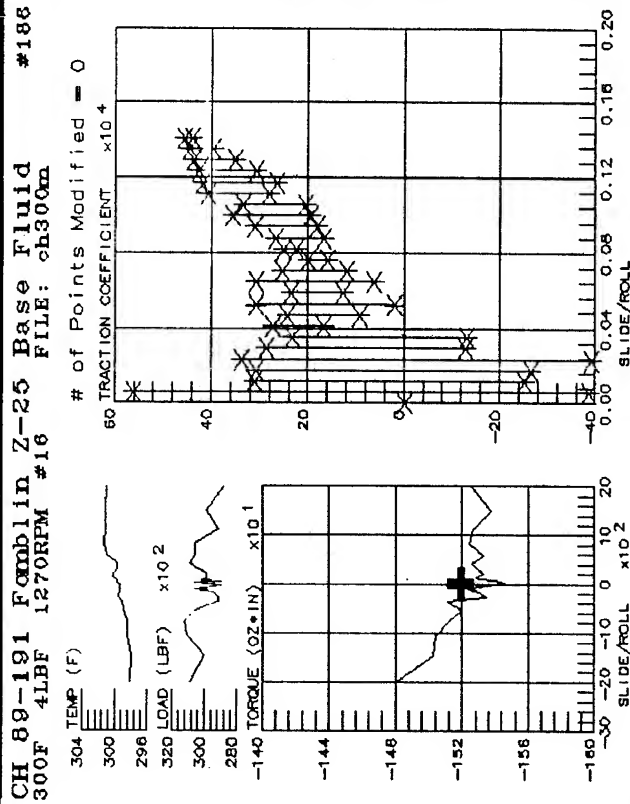
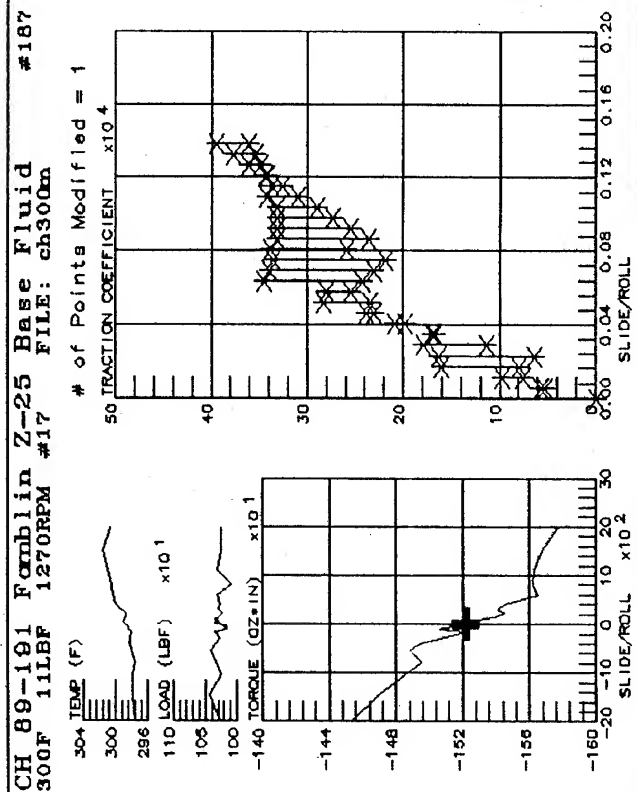
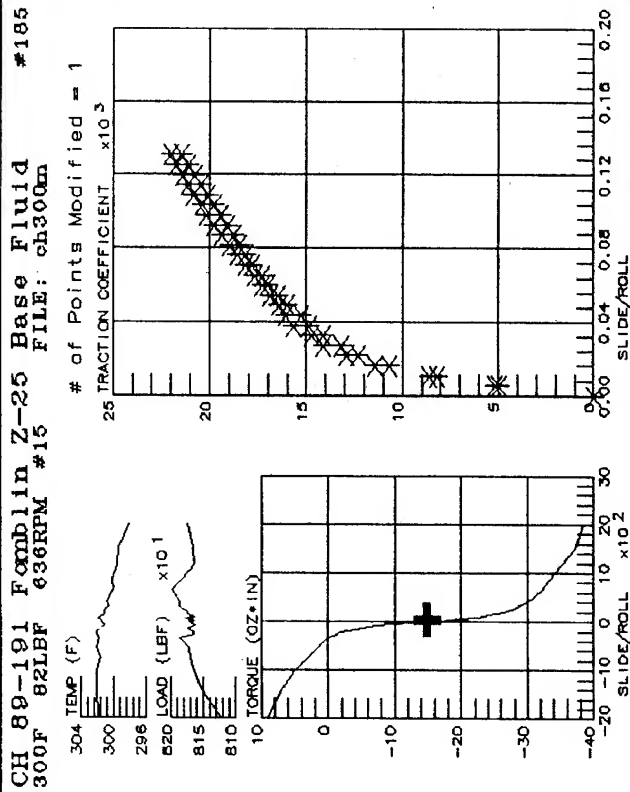


CH 89-191 Fomblin Z-25 Base Fluid
300F 25LBF 636RPM #13

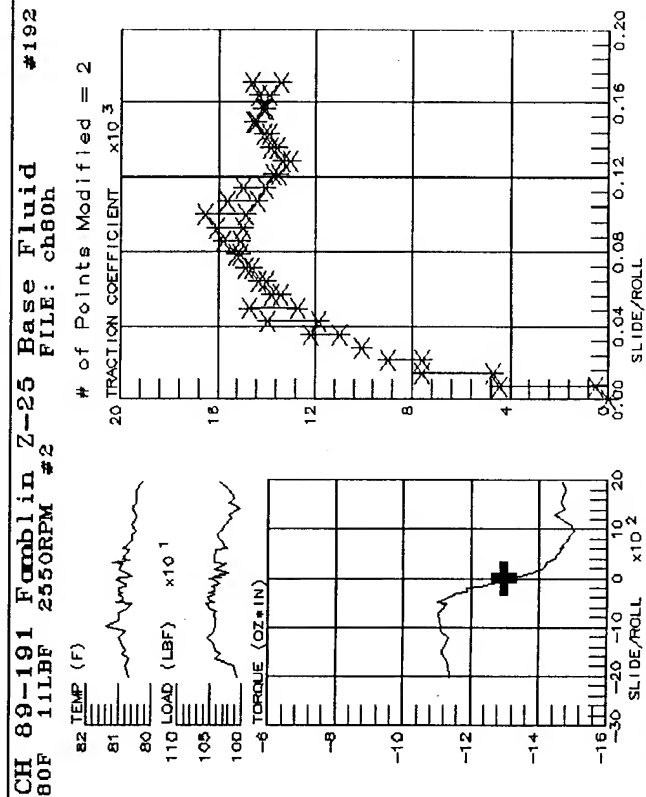
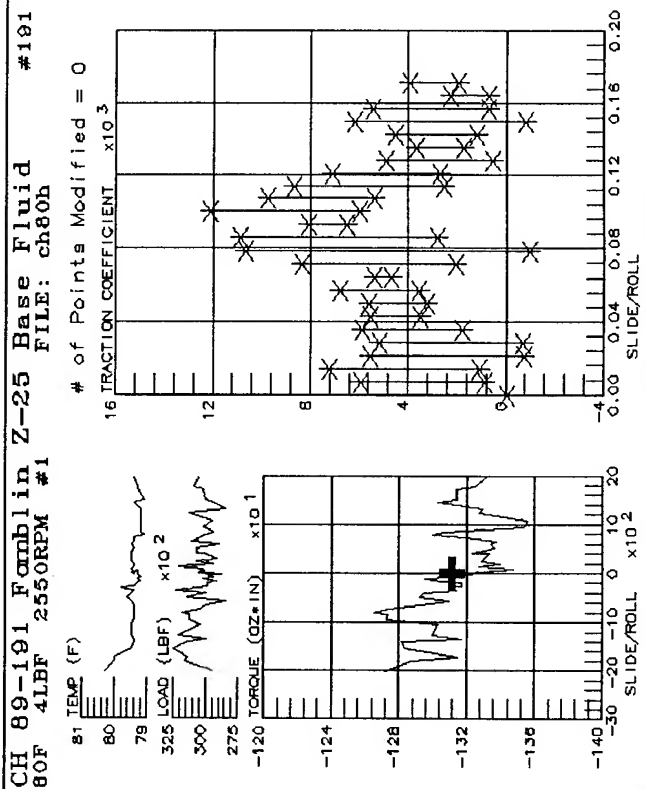
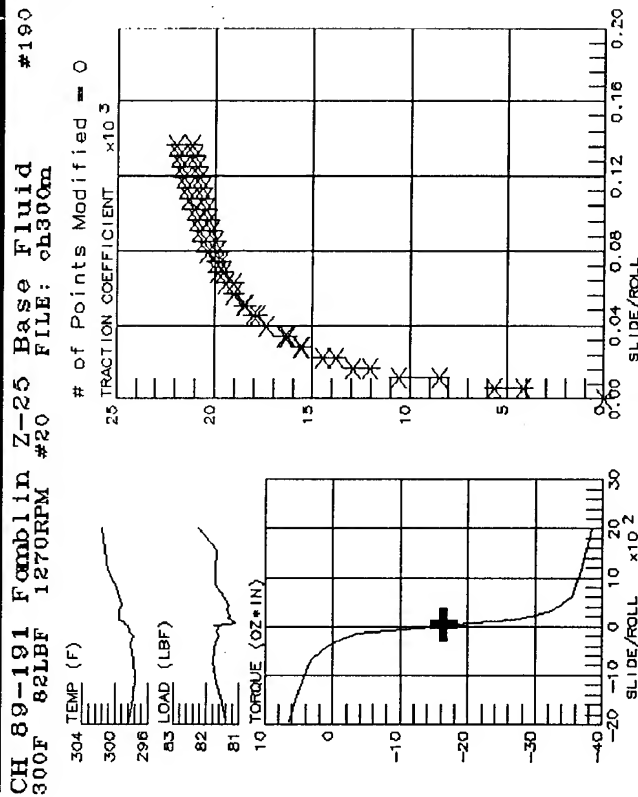
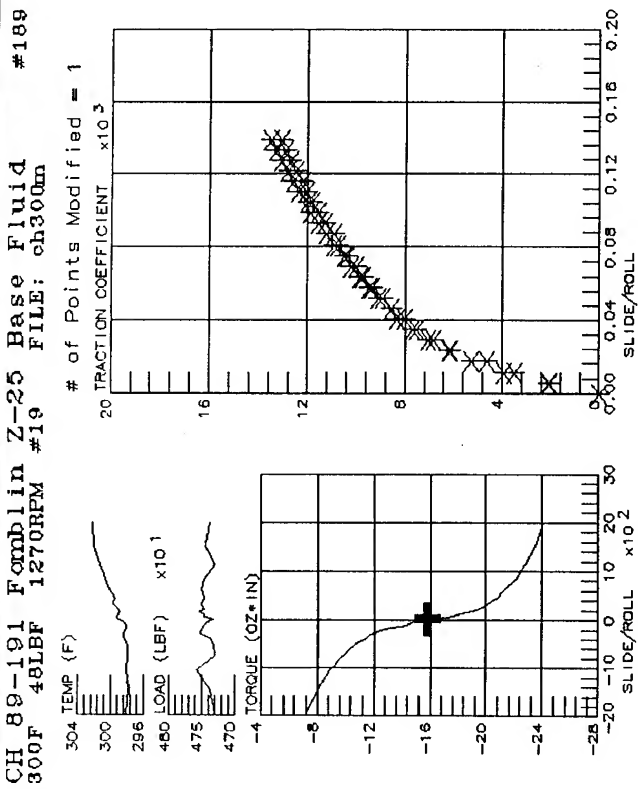
CH 89-191 Fomblin Z-25 Base Fluid
300F 48LBF 636RPM #14



TRACTION DATA

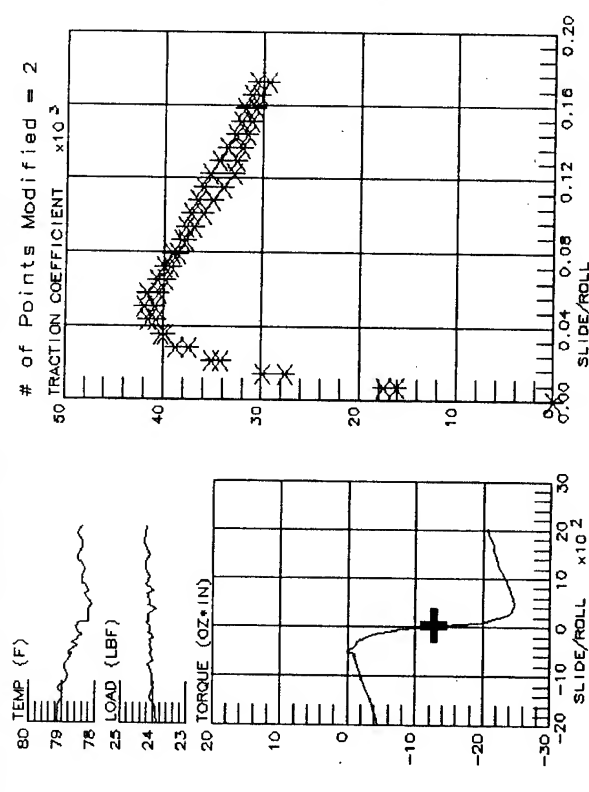


TRACTION DATA

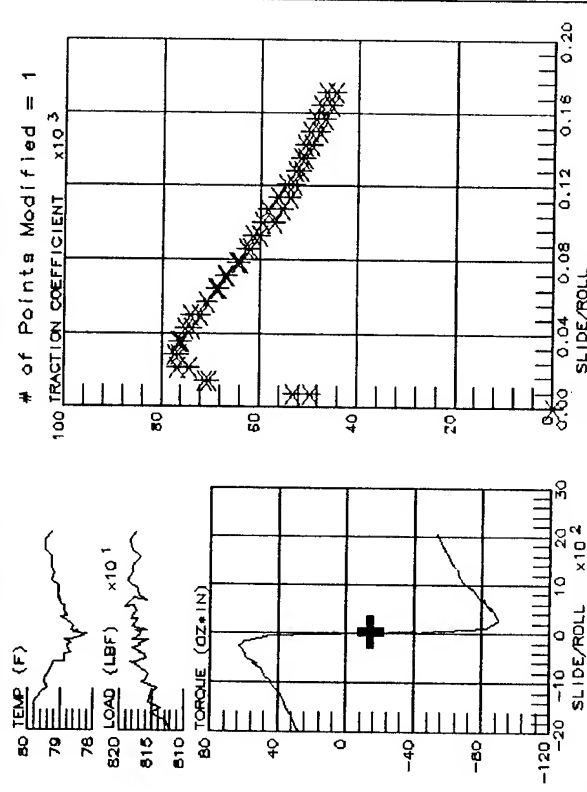


TRACTION DATA

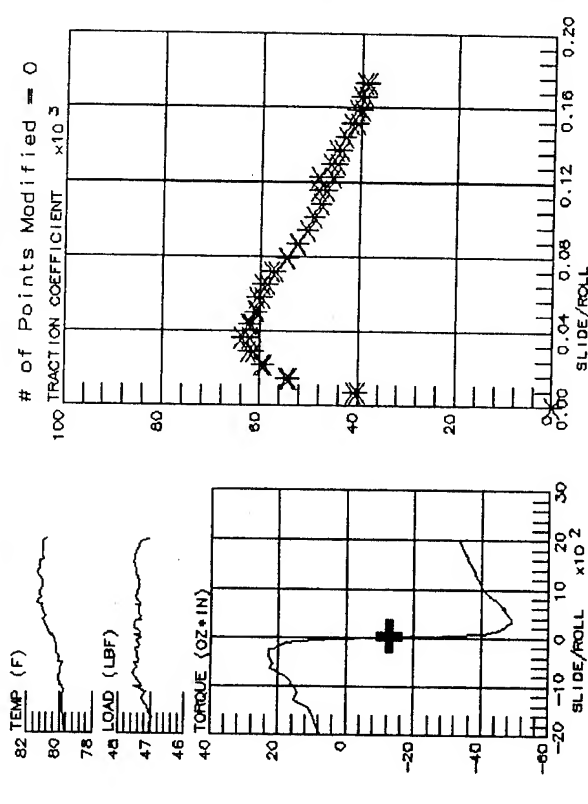
CH 89-191 Fomblin Z-25 Base Fluid #193
80F 25LBF 2550RPM #3 FILE: ch80h



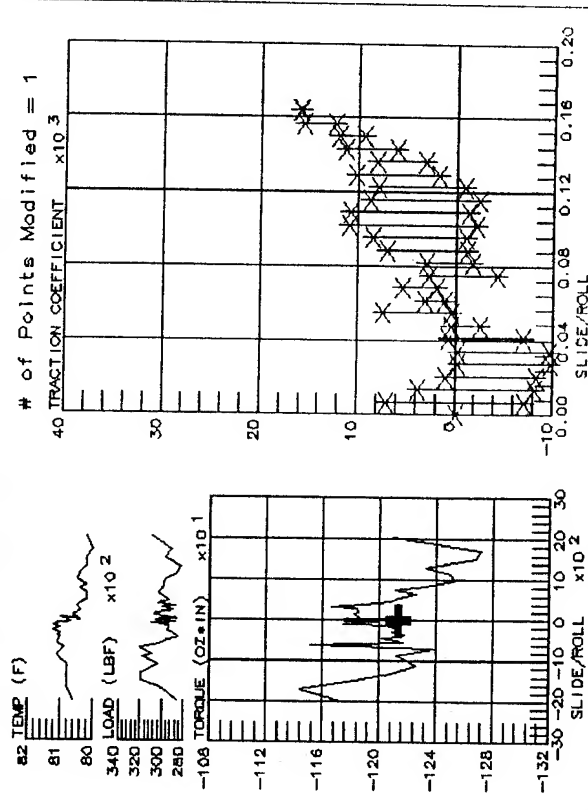
CH 89-191 Fomblin Z-25 Base Fluid #195
80F 82LBF 2550RPM #5 FILE: ch80h



CH 89-191 Fomblin Z-25 Base Fluid #194
80F 48LBF 2550RPM #4 FILE: ch80h



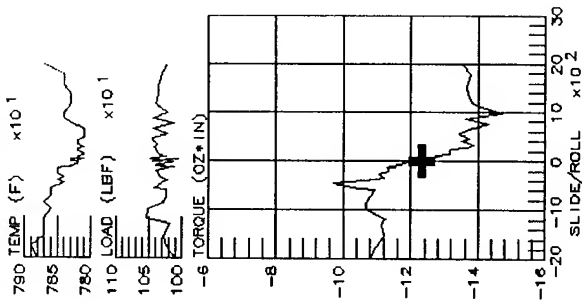
CH 89-191 Fomblin Z-25 Base Fluid #196
80F 4LBF 5100RPM #8 FILE: ch80h



TRACTION DATA

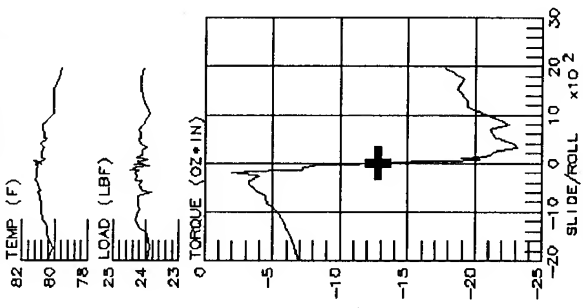
CH 89-191 Foxblin Z-25 Base Fluid #197
80F 11LBF 5100RPM #7 FILE: ch80h

of Points Modified = 2



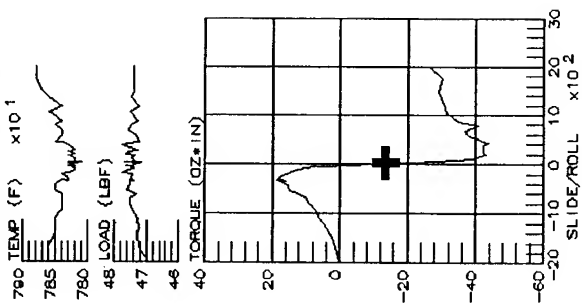
CH 89-191 Foxblin Z-25 Base Fluid #198
80F 25LBF 5100RPM #8 FILE: ch80h

of Points Modified = 3



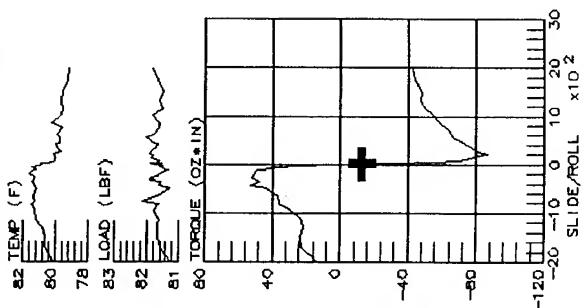
CH 89-191 Foxblin Z-25 Base Fluid #199
80F 48LBF 5100RPM #9 FILE: ch80h

of Points Modified = 1



CH 89-191 Foxblin Z-25 Base Fluid #200
80F 82LBF 5100RPM #10 FILE: ch80h

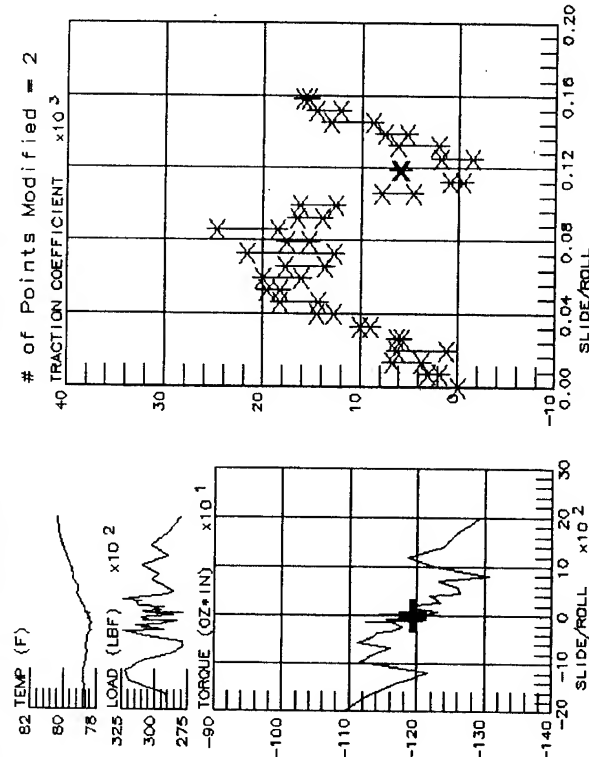
of Points Modified = 2



TRACTION DATA

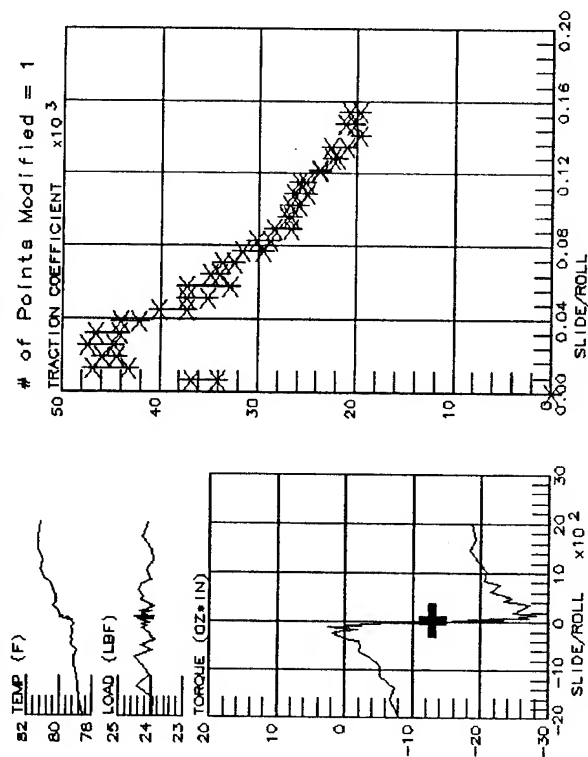
CH 89-191 Fomblin Z-25 Base Fluid #201
80F 41LBF 10150RPM #11 FILE: ch80h

of Points Modified = 2



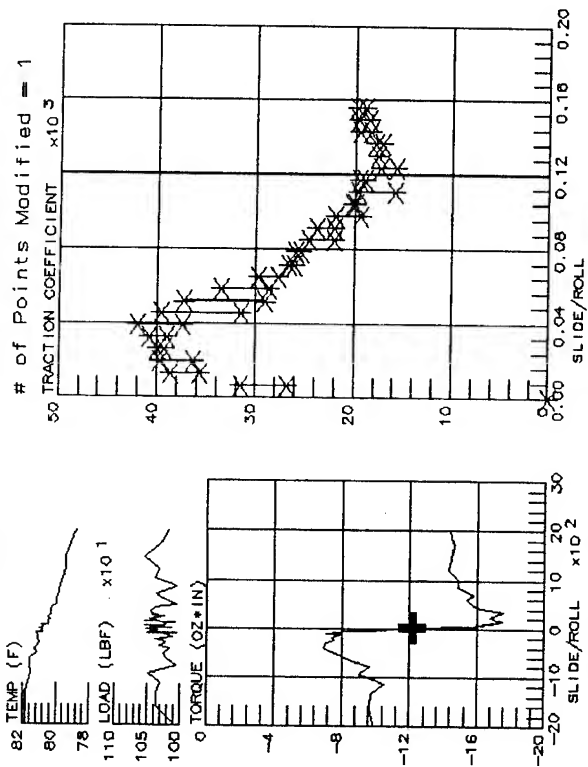
CH 89-191 Fomblin Z-25 Base Fluid #203
80F 25LBF 10150RPM #13 FILE: ch80h

of Points Modified = 1



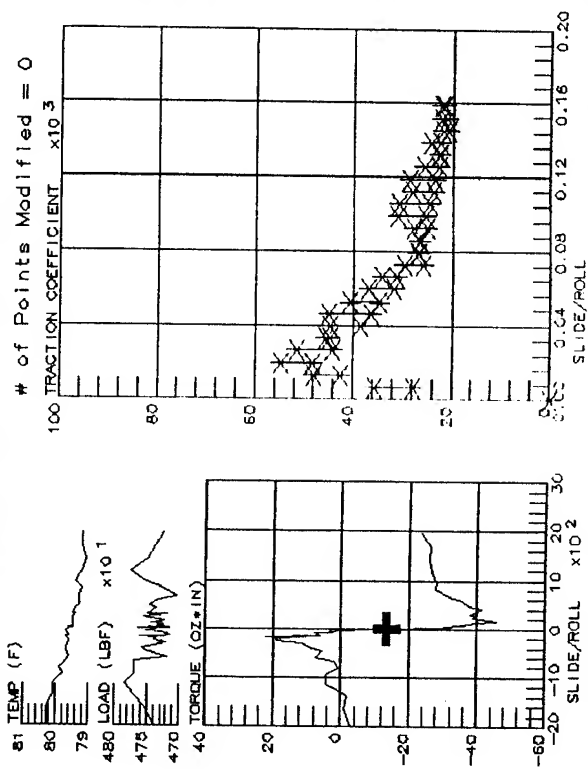
CH 89-191 Fomblin Z-25 Base Fluid #202
80F 11LBF 10150RPM #12 FILE: ch80h

of Points Modified = 1



CH 89-191 Fomblin Z-25 Base Fluid #204
80F 48LBF 10150RPM #14 FILE: ch80h

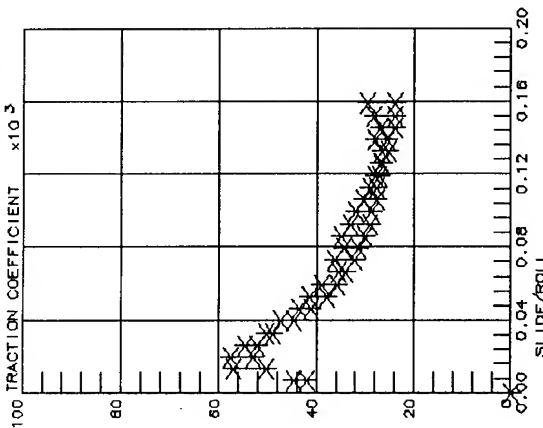
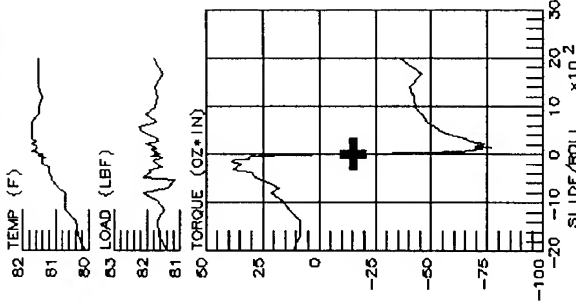
of Points Modified = 0



TRACTION DATA

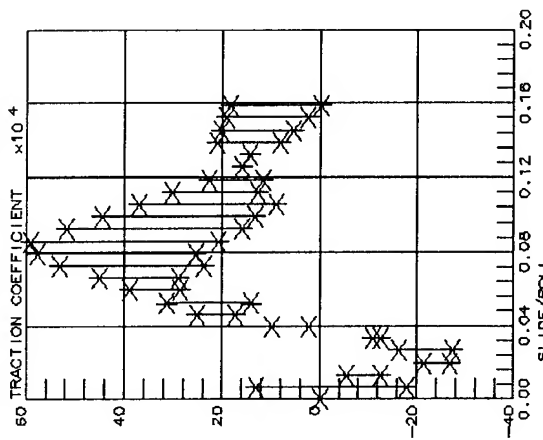
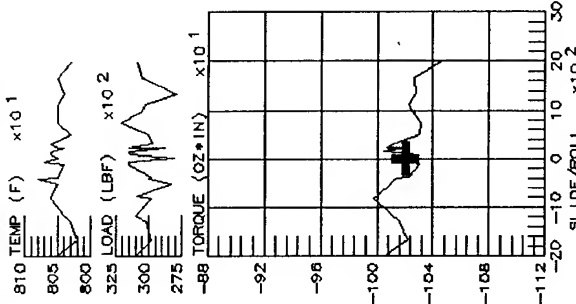
CH 89-191 Fomblin Z-25 Base Fluid #205
80F 82LBF 10160RPM #15 FILE: ch80h

of Points Modified = 2



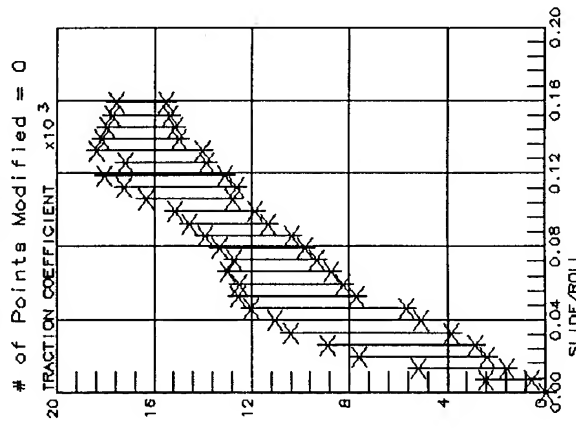
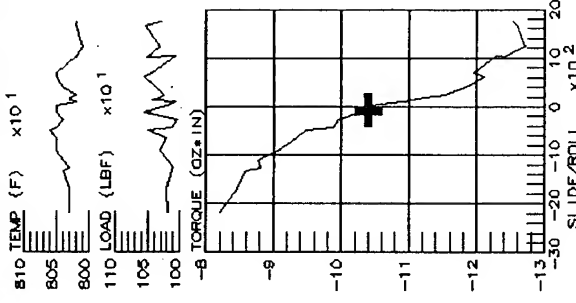
CH 89-191 Fomblin Z-25 Base Fluid #208
80F 4LBF 152RPM #1 FILE: ch80m

of Points Modified = 2



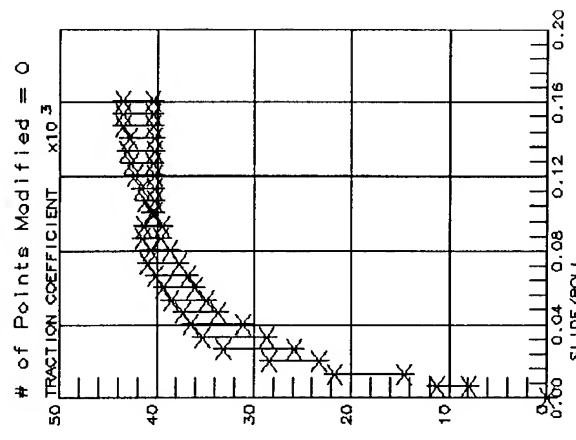
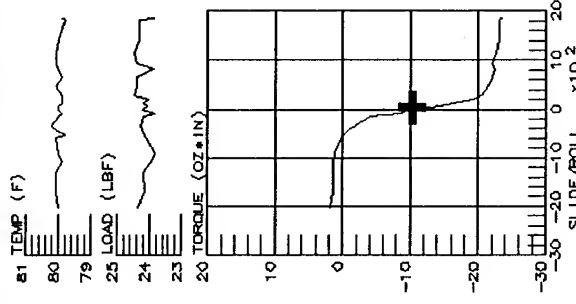
CH 89-191 Fomblin Z-25 Base Fluid #207
80F 11LBF 152RPM #2

of Points Modified = 0



CH 89-191 Fomblin Z-25 Base Fluid #208
80F 25LBF 152RPM #3

of Points Modified = 0

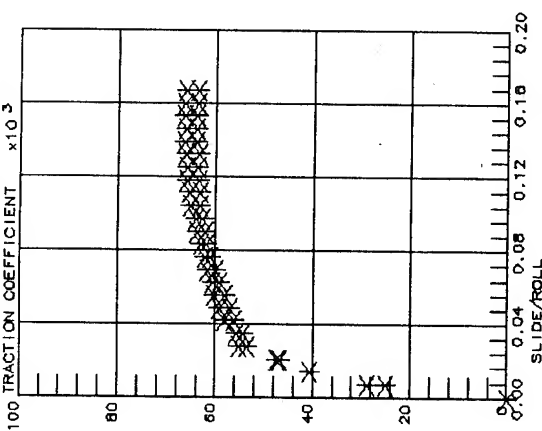
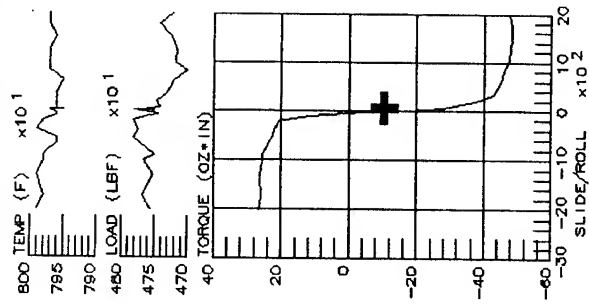


TRACTION DATA

CH 89-191 Fomblin Z-25 Base Fluid
80F 48LBF 152RPM #4

#209

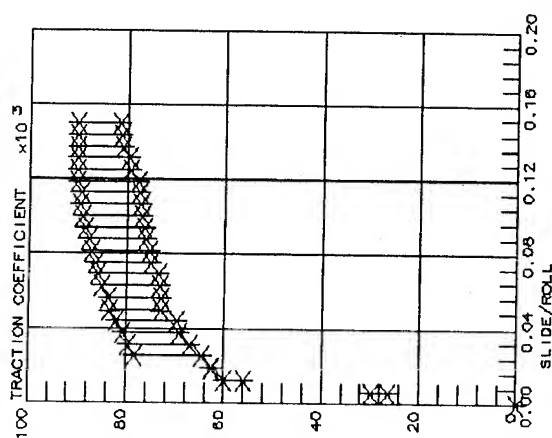
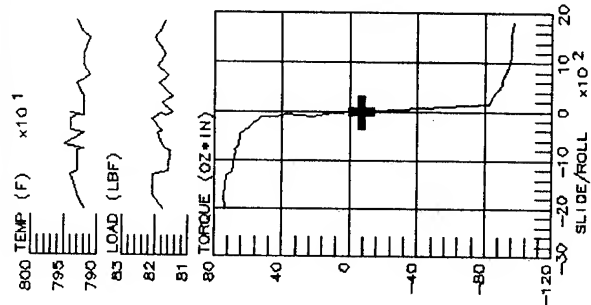
of Points Modified = 0



CH 89-191 Fomblin Z-25 Base Fluid
80F 82LBF 152RPM #5

#210

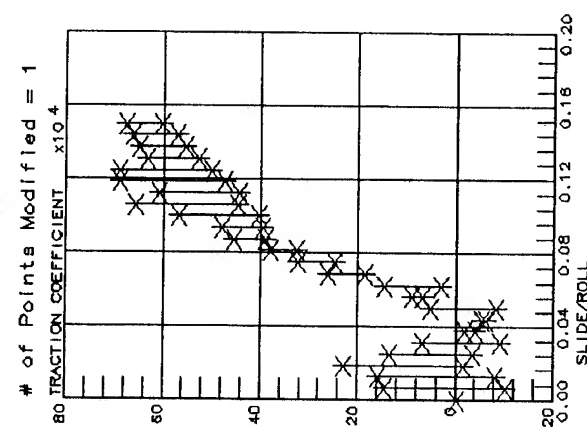
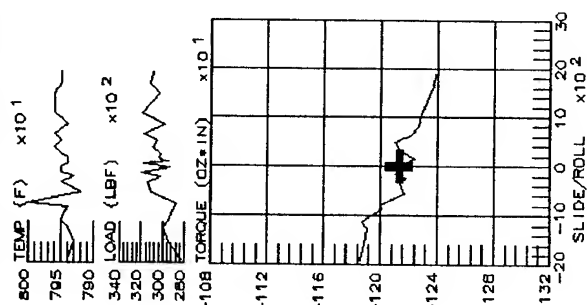
of Points Modified = 0



CH 89-191 Fomblin Z-25 Base Fluid
80F 4LBF 310RPM #6

#211

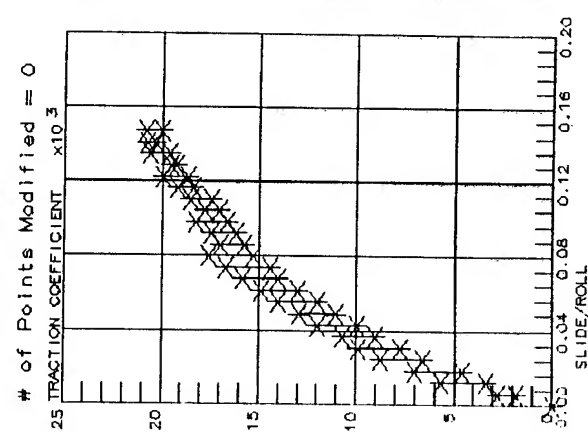
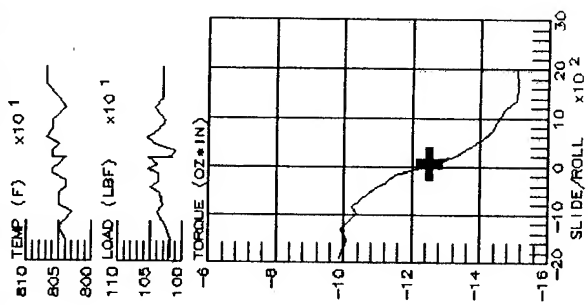
of Points Modified = 1



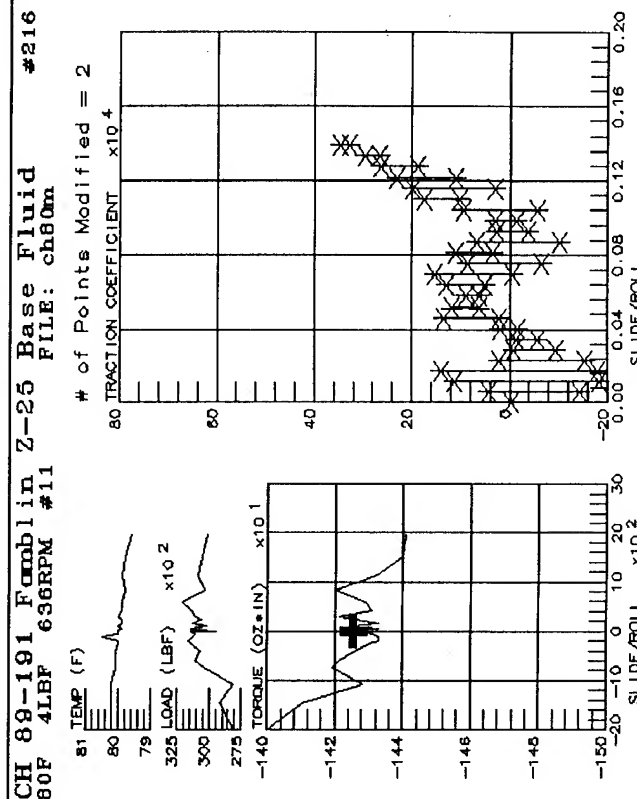
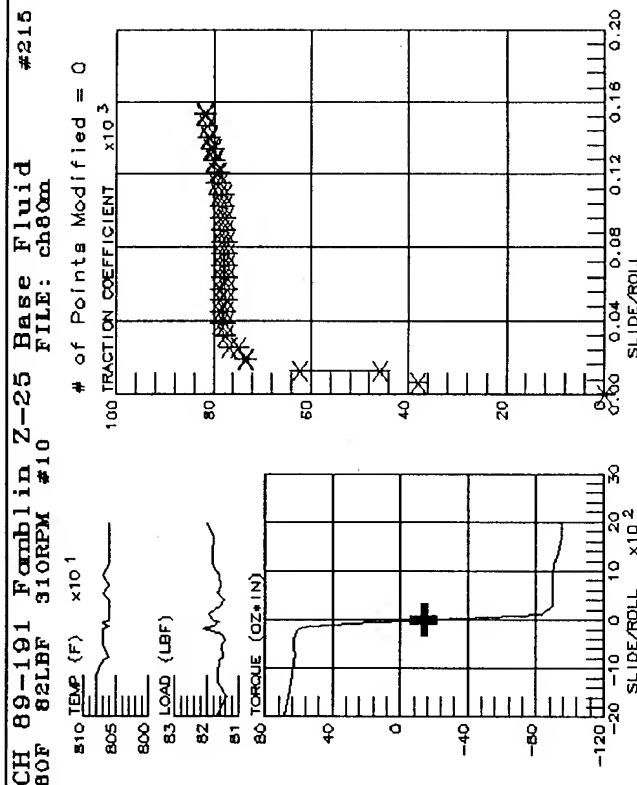
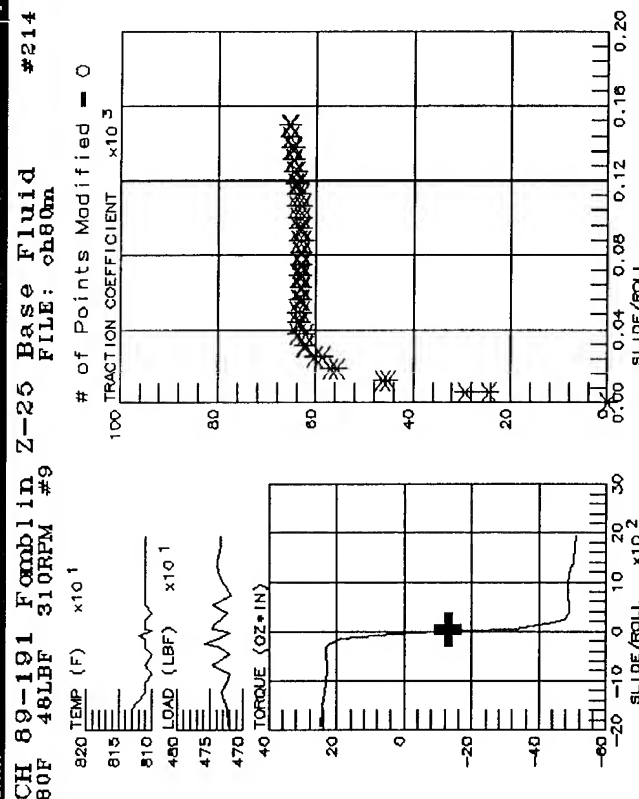
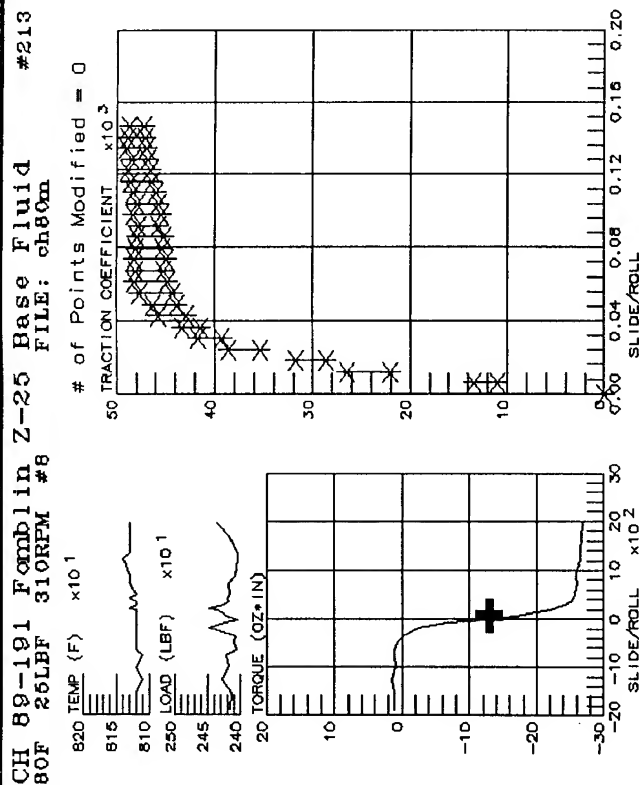
CH 89-191 Fomblin Z-25 Base Fluid
80F 11LBF 310RPM #7

#212

of Points Modified = 0

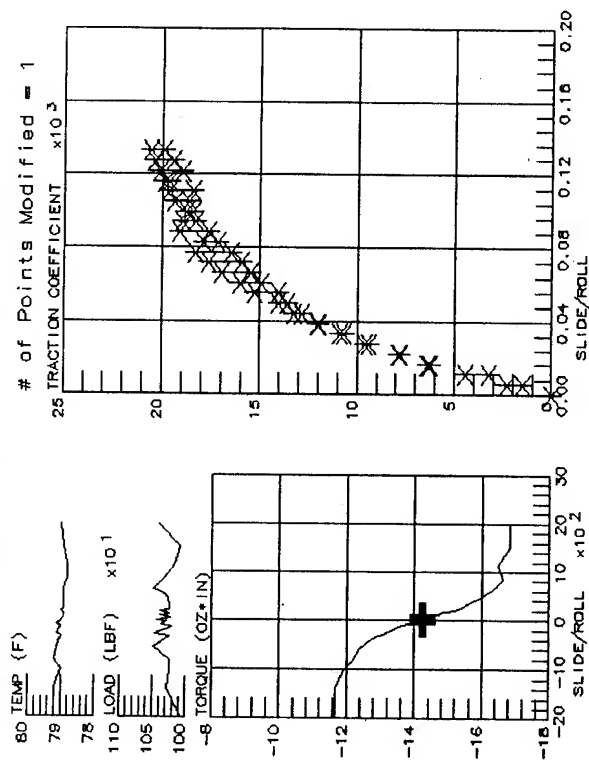


TRACTION DATA

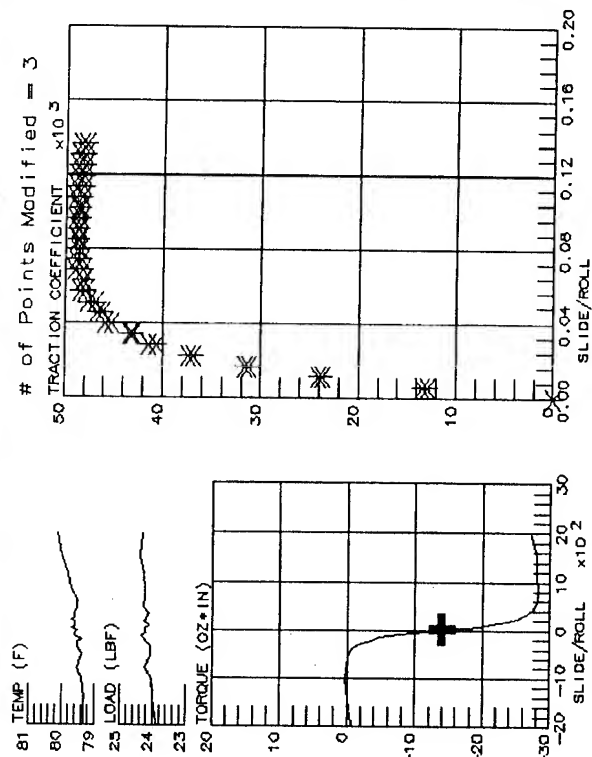


TRACTION DATA

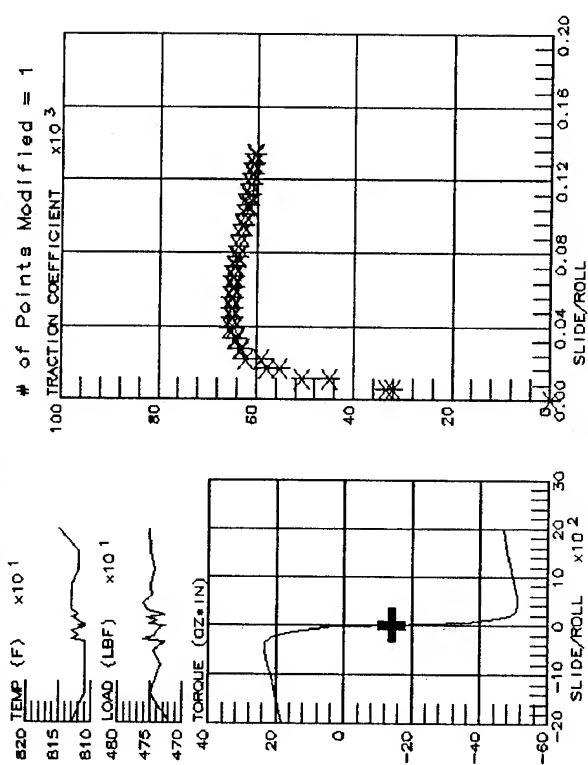
CH 89-191 Fomblin Z-25 Base Fluid #12
80F 111BF 636RPM #12
FILE: ch80m



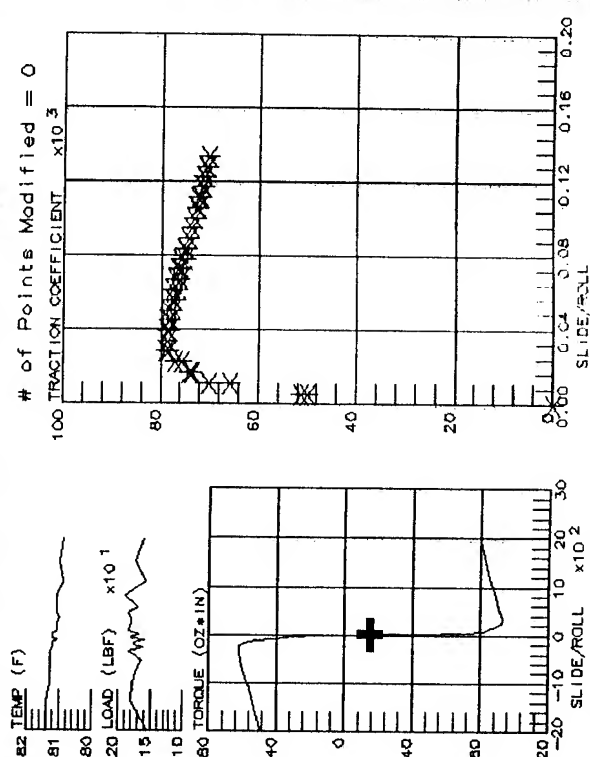
CH 89-191 Fomblin Z-25 Base Fluid #218
80F 25LBF 636RPM #13
FILE: ch80m



CH 89-191 Fomblin Z-25 Base Fluid #219
80F 48LBF 636RPM #14
FILE: ch80m

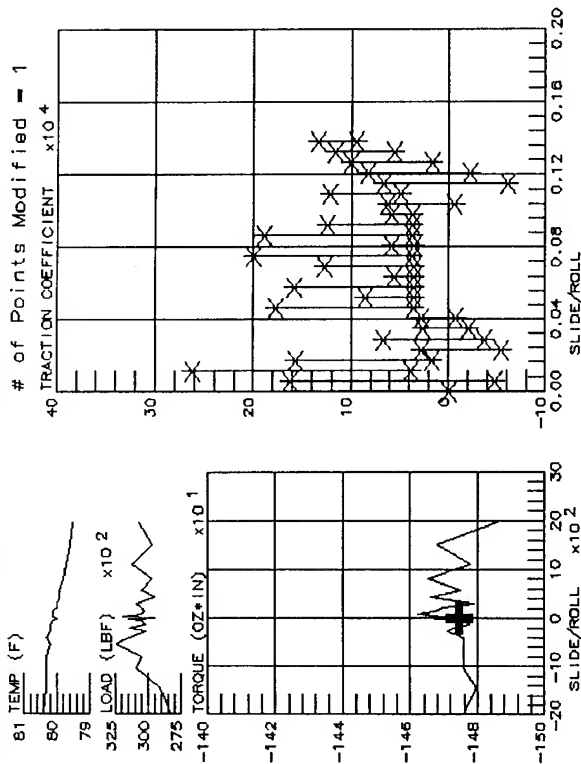


CH 89-191 Fomblin Z-25 Base Fluid #220
80F 82LBF 636RPM #15
FILE: ch80m

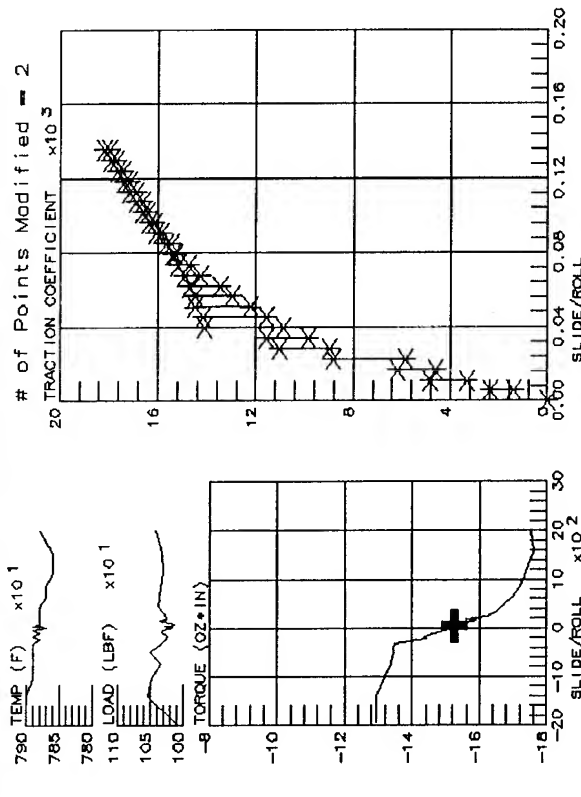


TRACTION DATA

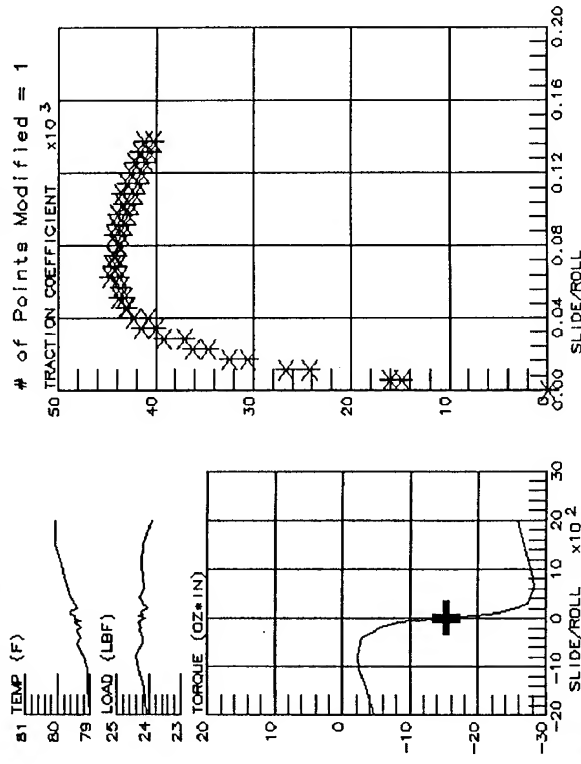
CH 89-191 Fomblin Z-25 Base Fluid #221
80F 4LBF 1270RPM #16 FILE: ch80m



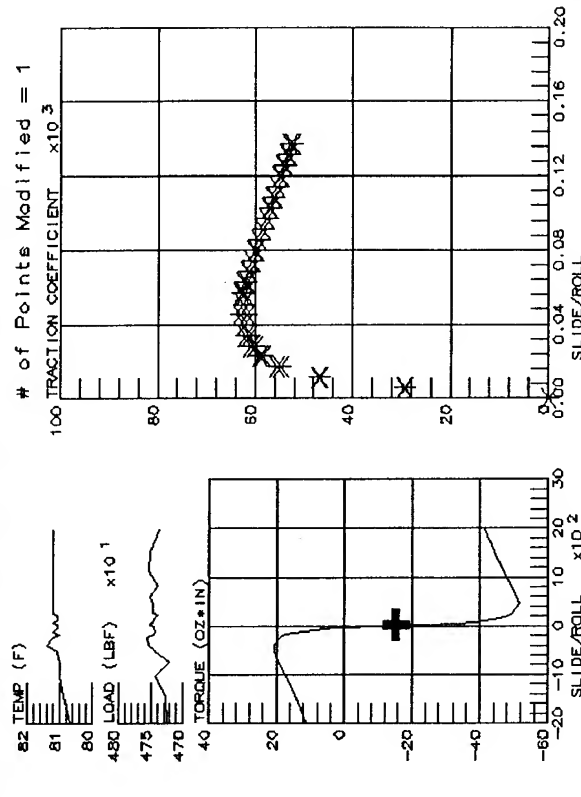
CH 89-191 Fomblin Z-25 Base Fluid #222
80F 11LBF 1270RPM #17 FILE: ch80m



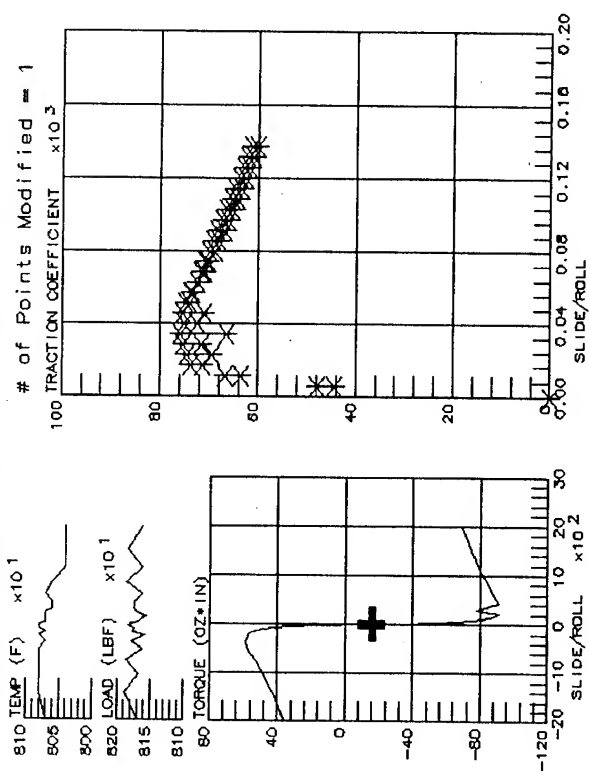
CH 89-191 Fomblin Z-25 Base Fluid #223
80F 25LBF 1270RPM #18 FILE: ch80m



CH 89-191 Fomblin Z-25 Base Fluid #224
80F 48LBF 1270RPM #19 FILE: ch80m



CH 89-191 Formblin Z-25 Base Fluid #225
 80F 82LBF 1270RPM #20 FILE: ch80m

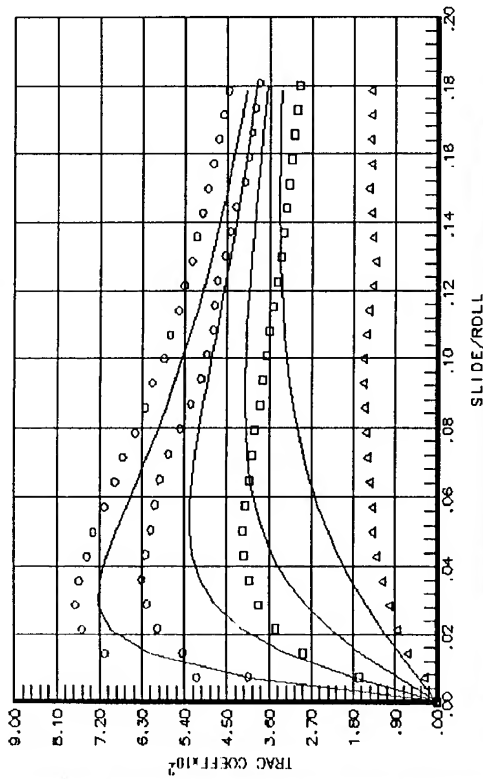


CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1

NEWTONIAN MODEL	TYPE 1	CH 89-191	Fomblin Z-25	Base Fluid
45N	5.09M/S	300K	#192	1.554E+01
108N	5.09M/S	300K	#193	1.554E+01
210N	5.09M/S	300K	#194	1.554E+01
364N	5.09M/S	300K	#195	1.554E+01

ALFA* 3.500E-09 3.500E-09 3.500E-09 3.500E-09
 BETA* 1.498E-02 1.498E-02 1.498E-02 1.498E-02

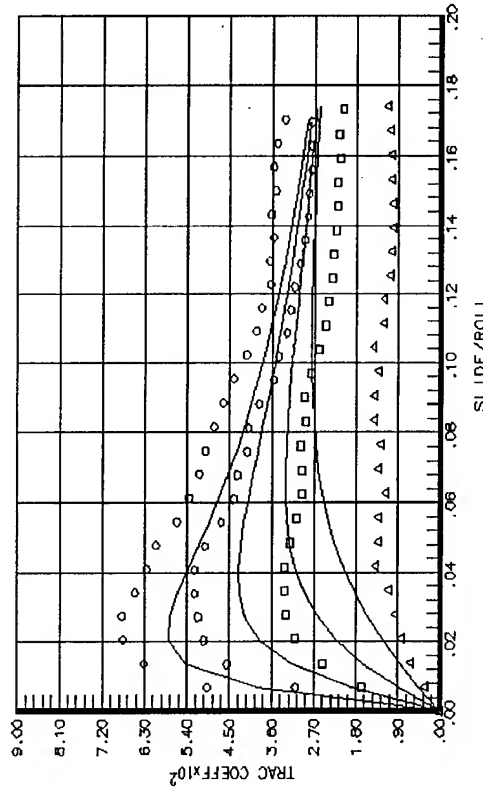


CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1

NEWTONIAN MODEL	TYPE 1	CH 89-191	Fomblin Z-25	Base Fluid
45N	10.17M/S	300K	#197	1.366E+01
108N	10.17M/S	300K	#198	1.366E+01
210N	10.17M/S	300K	#199	1.366E+01
364N	10.17M/S	300K	#200	1.366E+01

ALFA* 3.500E-09 3.500E-09 3.500E-09 3.500E-09
 BETA* 8.087E-03 8.087E-03 8.087E-03 8.087E-03

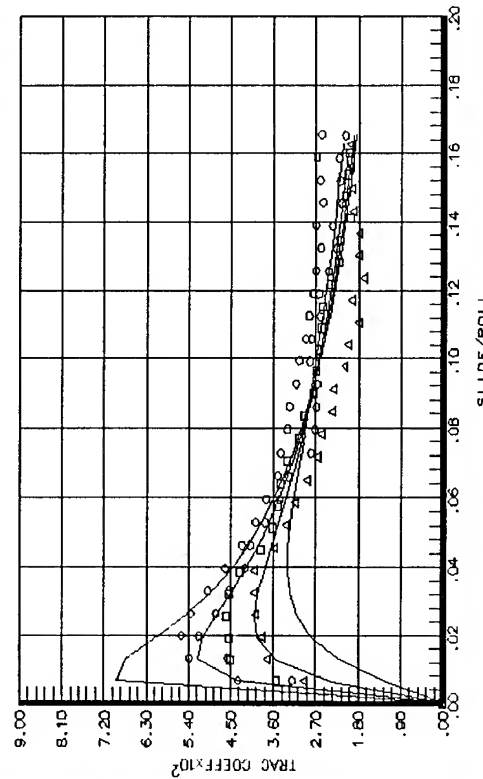


CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1

NEWTONIAN MODEL	TYPE 1	CH 89-191	Fomblin Z-25	Base Fluid
45N	20.25M/S	300K	#202	3.426E+01
108N	20.25M/S	300K	#203	3.426E+01
210N	20.25M/S	300K	#204	3.426E+01
364N	20.25M/S	300K	#205	3.426E+01

ALFA* 3.500E-09 3.500E-09 3.500E-09 3.500E-09
 BETA* 5.708E-03 5.708E-03 5.708E-03 5.708E-03

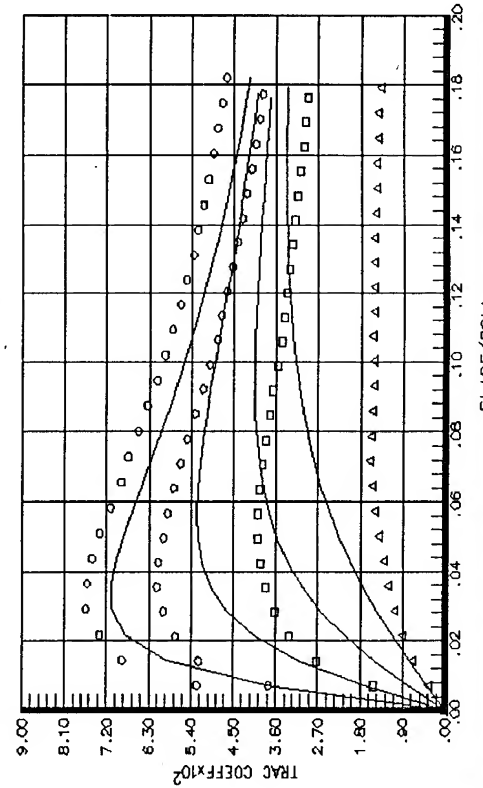


CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1

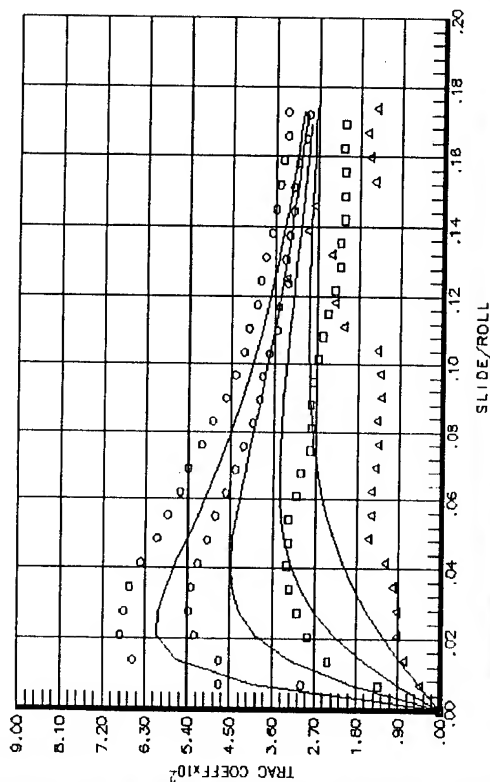
NEWTONIAN MODEL	TYPE 1	CH 89-191	Fomblin Z-25	Base Fluid
45N	5.09M/S	311K	#3	1.445E+01
108N	5.09M/S	311K	#4	1.445E+01
210N	5.09M/S	311K	#5	1.445E+01
364N	5.09M/S	311K	#6	1.445E+01

ALFA* 3.500E-09 3.500E-09 3.500E-09 3.500E-09
 BETA* 1.420E-02 1.420E-02 1.420E-02 1.420E-02



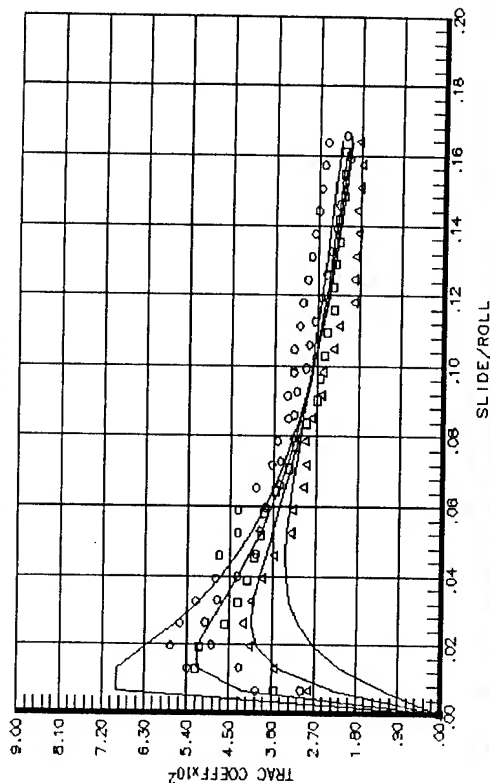
CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1
 45N 10.17M/S 311K # 7 1.368E+01 3.500E-09 7.433E-03 BETA*
 108N 10.17M/S 311K # 8 1.368E+01 3.500E-09 7.433E-03
 210N 10.17M/S 311K # 9 1.368E+01 3.500E-09 7.433E-03
 364N 10.17M/S 311K # 10 1.368E+01 3.500E-09 7.433E-03



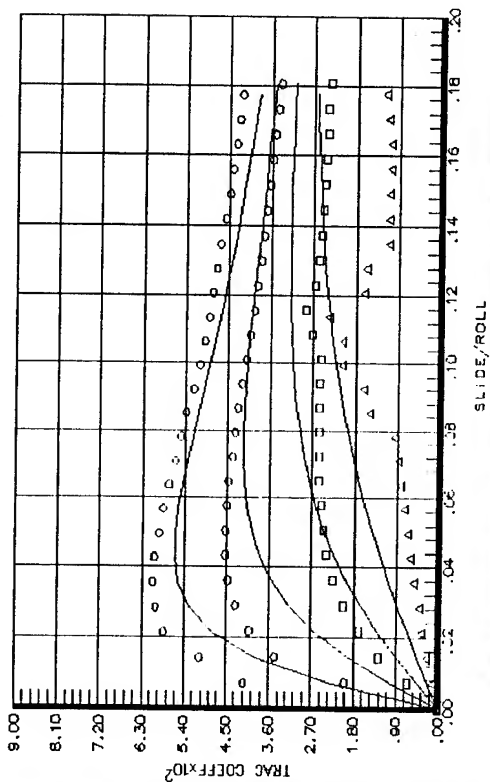
CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1
 45N 20.25M/S 311K # 12 3.184E+01 3.500E-09 5.221E-03 BETA*
 108N 20.25M/S 311K # 13 3.184E+01 3.500E-09 5.221E-03
 210N 20.25M/S 311K # 14 3.184E+01 3.500E-09 5.221E-03
 364N 20.25M/S 311K # 15 3.184E+01 3.500E-09 5.221E-03



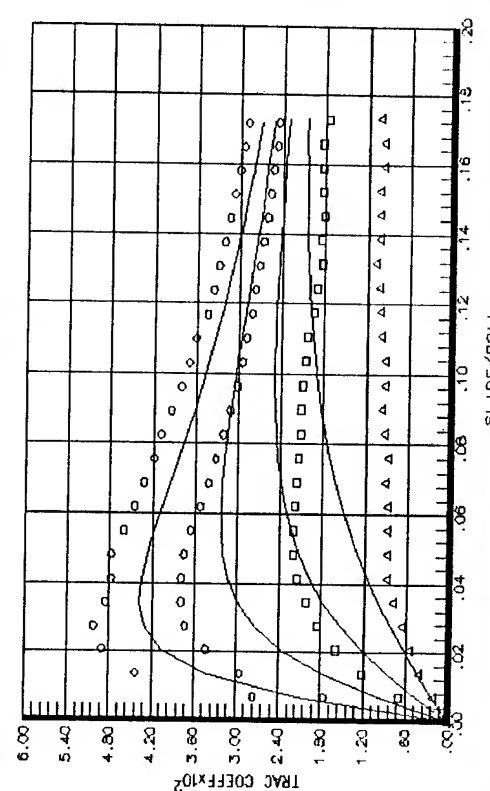
CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1
 45N 5.08M/S 339K # 37 8.402E+00 3.500E-09 1.330E-02 BETA*
 108N 5.08M/S 339K # 38 8.402E+00 3.500E-09 1.330E-02
 210N 5.08M/S 339K # 39 8.402E+00 3.500E-09 1.330E-02
 364N 5.08M/S 339K # 40 8.402E+00 3.500E-09 1.330E-02



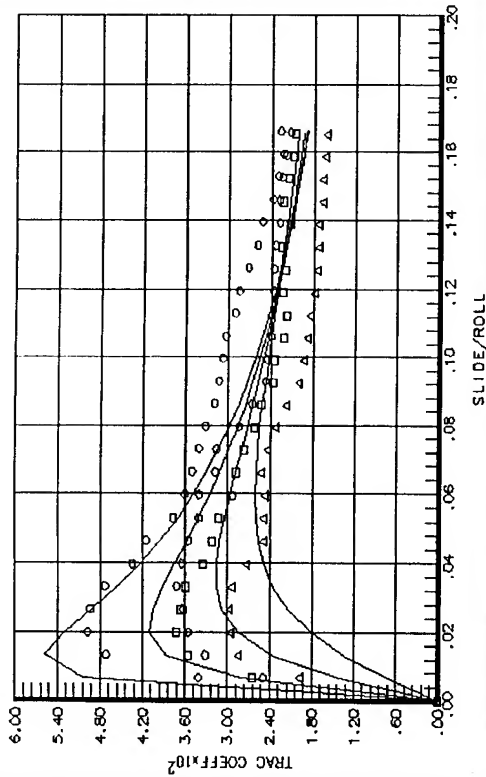
CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1
 45N 10.17M/S 339K # 42 6.890E+00 3.500E-09 6.992E-03 BETA*
 108N 10.17M/S 339K # 43 6.890E+00 3.500E-09 6.992E-03
 210N 10.17M/S 339K # 44 6.890E+00 3.500E-09 6.992E-03
 364N 10.17M/S 339K # 45 6.890E+00 3.500E-09 6.992E-03



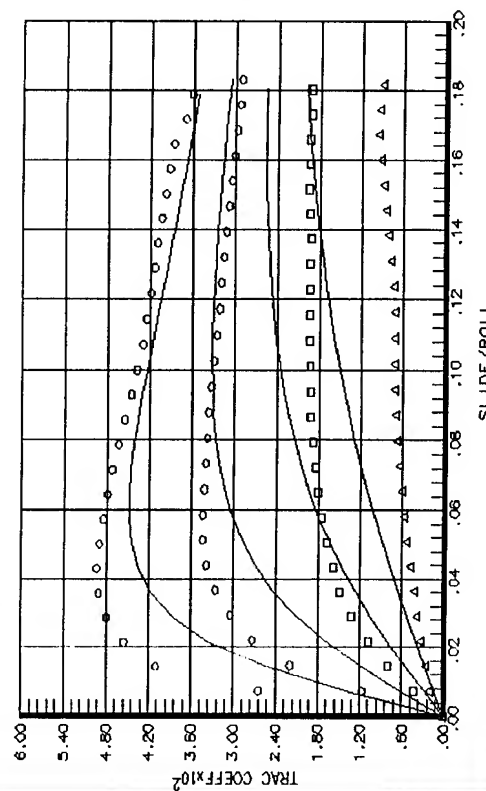
CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1
 45N 20.25M/S 339K # 47 1.874E+01 3.500E-09 4.848E-03
 108N 20.25M/S 339K # 48 1.874E+01 3.500E-09 4.848E-03
 210N 20.25M/S 339K # 49 1.874E+01 3.500E-09 4.848E-03
 364N 20.25M/S 339K # 50 1.874E+01 3.500E-09 4.848E-03



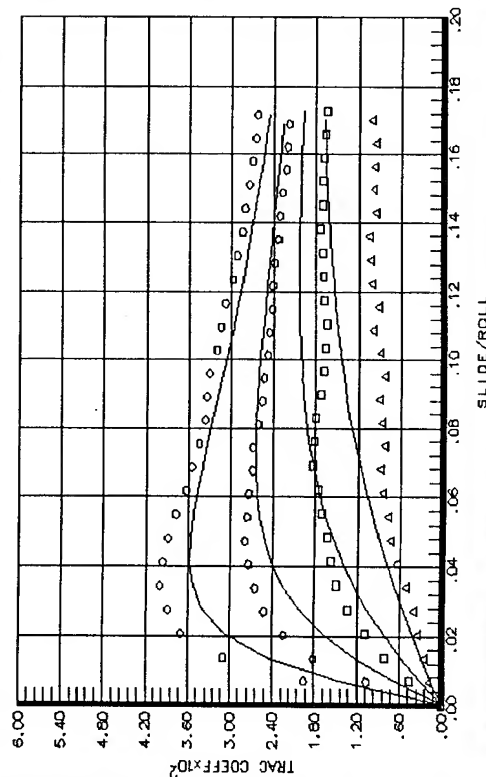
CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1
 45N 5.09M/S 367K # 72 4.995E+00 3.500E-09 1.232E-02
 108N 5.09M/S 367K # 73 4.995E+00 3.500E-09 1.232E-02
 210N 5.09M/S 367K # 74 4.995E+00 3.500E-09 1.232E-02
 364N 5.09M/S 367K # 75 4.995E+00 3.500E-09 1.232E-02



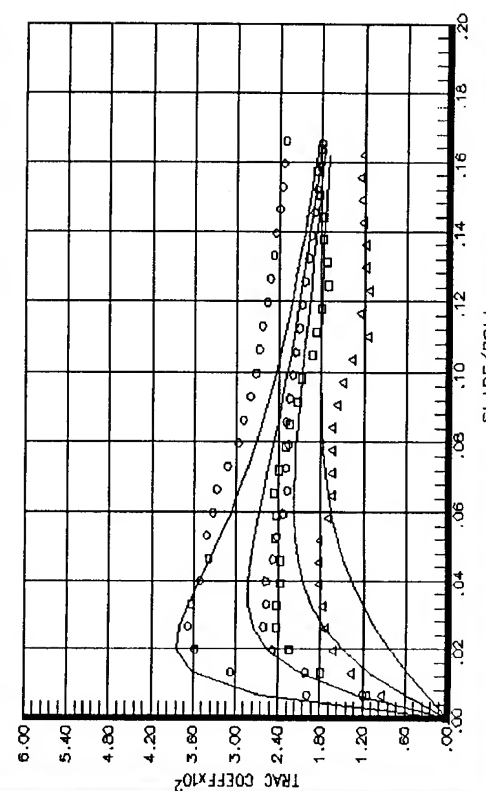
CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1
 45N 10.17M/S 367K # 77 4.405E+00 3.500E-09 6.891E-03
 108N 10.17M/S 367K # 78 4.405E+00 3.500E-09 6.891E-03
 210N 10.17M/S 367K # 79 4.405E+00 3.500E-09 6.891E-03
 364N 10.17M/S 367K # 80 4.405E+00 3.500E-09 6.891E-03



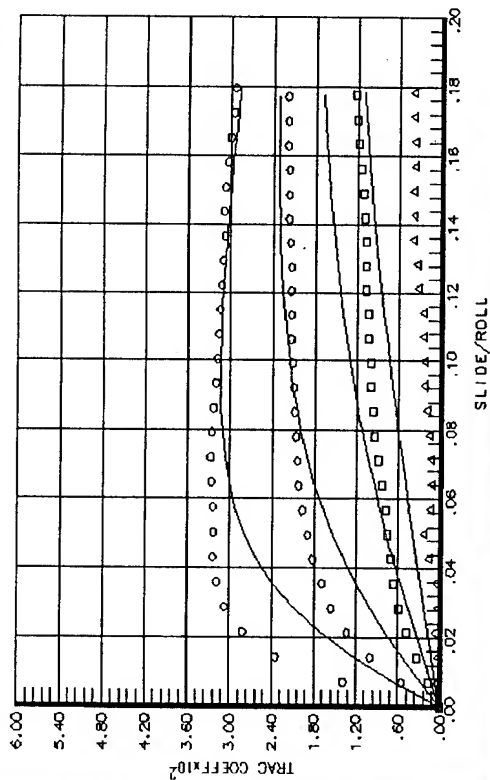
CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1
 45N 20.25M/S 367K # 82 7.498E+00 3.500E-09 4.138E-03
 108N 20.25M/S 367K # 83 7.498E+00 3.500E-09 4.138E-03
 210N 20.25M/S 367K # 84 7.498E+00 3.500E-09 4.138E-03
 364N 20.25M/S 367K # 85 7.498E+00 3.500E-09 4.138E-03



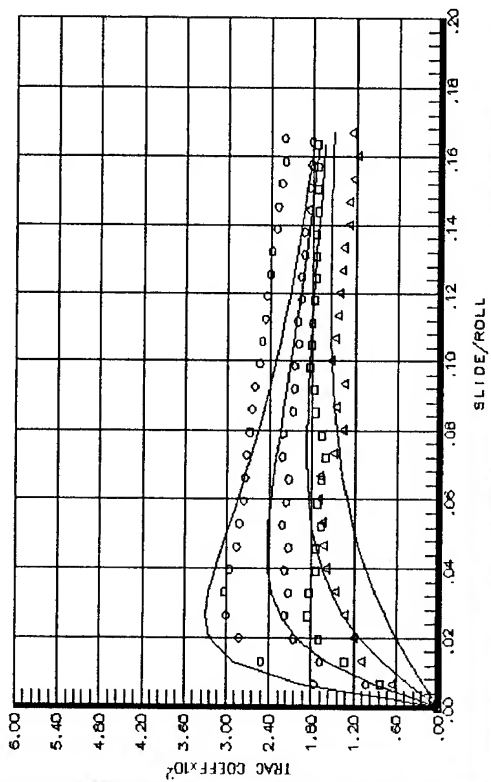
CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL	TYPE 1	CH 89-191	ohis.dat	ALFA*	BETA*
45N	5.09M/S	394K	#107	2.183E+00	3.500E-09
108N	5.09M/S	394K	#108	2.183E+00	3.500E-09
210N	5.09M/S	394K	#109	2.183E+00	3.500E-09
364N	5.09M/S	394K	#110	2.183E+00	3.500E-09



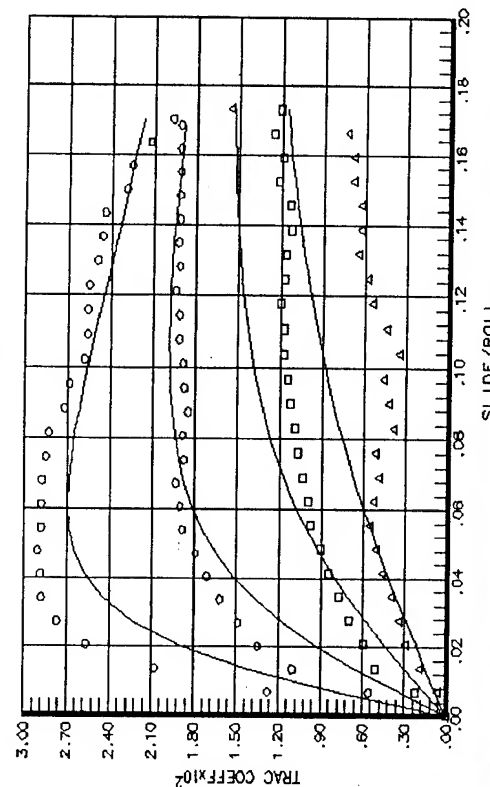
CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL	TYPE 1	CH 89-191	ch22.dat	ALFA*	BETA*
45N	20.25M/S	394K	#117	5.244E+00	3.934E-03
108N	20.25M/S	394K	#118	5.244E+00	3.934E-03
210N	20.25M/S	394K	#119	5.244E+00	3.934E-03
364N	20.25M/S	394K	#120	5.244E+00	3.934E-03



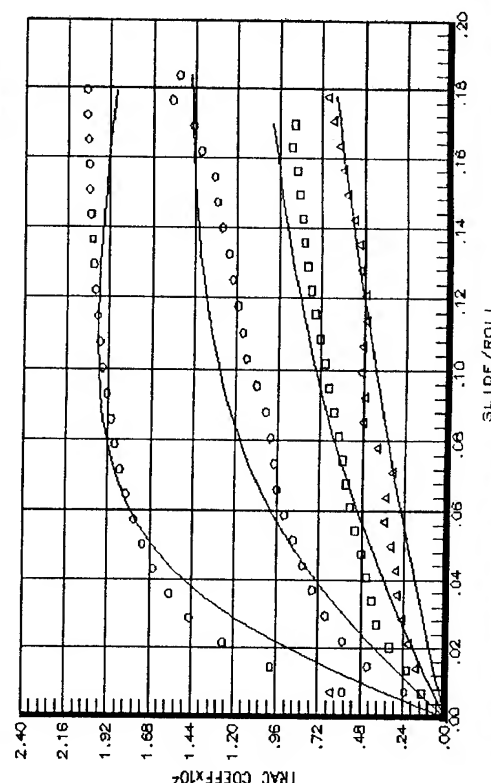
CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL	TYPE 1	CH 89-191	oh19.dat	ALFA*	BETA*
45N	10.17M/S	394K	#112	2.301E+00	3.500E-09
108N	10.17M/S	394K	#113	2.301E+00	3.500E-09
210N	10.17M/S	394K	#114	2.301E+00	3.500E-09
364N	10.17M/S	394K	#115	2.301E+00	3.500E-09



CH 89-191 Fomblin Z-25 Base Fluid

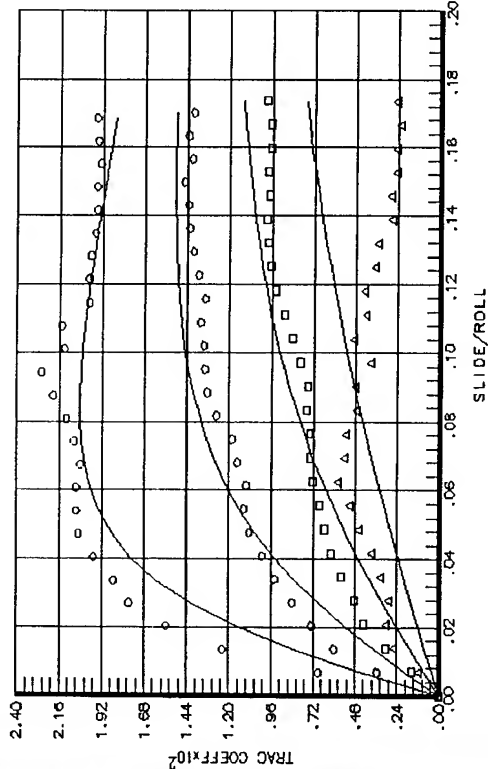
NEWTONIAN MODEL	TYPE 1	CH 89-191	ch22.dat	ALFA*	BETA*
45N	5.09M/S	422K	#157	1.182E+00	3.500E-09
108N	5.09M/S	422K	#158	1.182E+00	3.500E-09
210N	5.09M/S	422K	#159	1.182E+00	3.500E-09
364N	5.09M/S	422K	#160	1.182E+00	3.500E-09



CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1

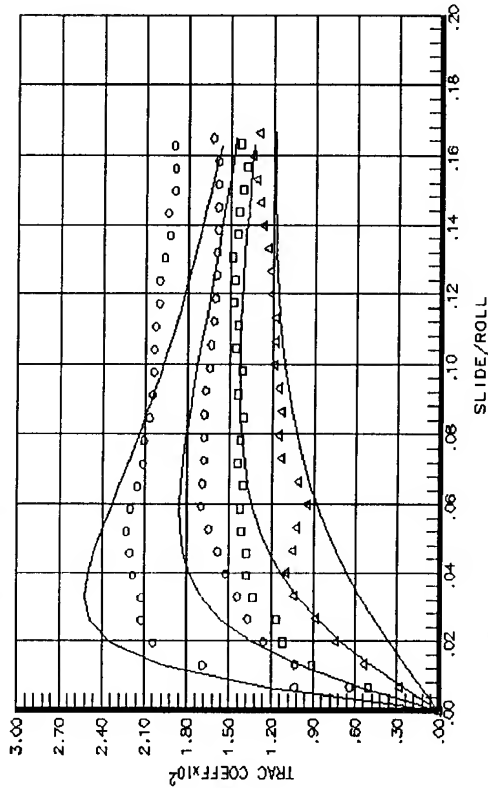
NEWTONIAN MODEL	TYPE 1	CH23.dat	ALFA*	BETA*
45N	10.17N/S	422K #162	1.268E+00	3.500E-09
108N	10.17N/S	422K #163	1.268E+00	3.500E-09
210N	10.17N/S	422K #164	1.268E+00	3.500E-09
364N	10.17N/S	422K #165	1.268E+00	3.500E-09



CH 89-191 Fomblin Z-25 Base Fluid

NEWTONIAN MODEL TYPE 1

NEWTONIAN MODEL	TYPE 1	CH24.dat	ALFA*	BETA*
45N	20.25M/S	422K #187	3.141E+00	3.500E-09
108N	20.25M/S	422K #188	3.141E+00	3.500E-09
210N	20.25M/S	422K #189	3.141E+00	3.500E-09
364N	20.25M/S	422K #190	3.141E+00	3.500E-09



8. Traction Data Set G: 88-177 Demnum S20

Data set name: CE 88-177 Demnum S-20
 Rolling radii [Disks 1 & 2] (in): 0.75 0.75
 Crown radii [Disks 1 & 2] (in): 1.20 1.20

Number of data sets found = 240

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
1	100.00	4.23	1919.00	3199.00	2559.00	50	ce100h #1
2	100.00	14.27	1919.00	3199.00	2559.00	50	ce100h #2
3	100.00	33.80	1919.00	3199.00	2559.00	50	ce100h #3
4	100.00	66.03	1919.00	3199.00	2559.00	50	ce100h #4
5	100.00	114.17	1919.00	3199.00	2559.00	50	ce100h #5
6	100.00	4.23	4572.00	5588.00	5080.00	50	ce100h #6
7	100.00	14.27	4572.00	5588.00	5080.00	50	ce100h #7
8	100.00	33.80	4572.00	5588.00	5080.00	50	ce100h #8
9	100.00	66.03	4572.00	5588.00	5080.00	50	ce100h #9
10	100.00	114.17	4572.00	5588.00	5080.00	50	ce100h #10
11	100.00	4.23	6875.00	8403.00	7639.00	50	ce100h #11
12	100.00	14.27	6875.00	8403.00	7639.00	50	ce100h #12
13	100.00	33.80	6875.00	8403.00	7639.00	50	ce100h #13
14	100.00	66.03	6875.00	8403.00	7639.00	50	ce100h #14
15	100.00	114.17	6875.00	8403.00	7639.00	50	ce100h #15
16	100.00	4.23	9178.00	11217.00	10197.50	50	ce100h #16
17	100.00	14.27	9178.00	11217.00	10197.50	50	ce100h #17
18	100.00	33.80	9178.00	11217.00	10197.50	50	ce100h #18
19	100.00	66.03	9178.00	11217.00	10197.50	50	ce100h #19
20	100.00	114.17	9178.00	11217.00	10197.50	50	ce100h #20
21	100.00	4.23	114.00	190.00	152.00	50	ce100l #1
22	100.00	14.27	114.00	190.00	152.00	50	ce100l #2
23	100.00	33.80	114.00	190.00	152.00	50	ce100l #3
24	100.00	66.03	114.00	190.00	152.00	50	ce100l #4
25	100.00	114.17	114.00	190.00	152.00	50	ce100l #5
26	100.00	4.23	229.00	381.00	305.00	50	ce100l #6
27	100.00	14.27	229.00	381.00	305.00	50	ce100l #7
28	100.00	33.80	229.00	381.00	305.00	50	ce100l #8
29	100.00	66.03	229.00	381.00	305.00	50	ce100l #9
30	100.00	114.17	229.00	381.00	305.00	50	ce100l #10
31	100.00	4.23	487.00	811.00	649.00	50	ce100l #11
32	100.00	14.27	487.00	811.00	649.00	50	ce100l #12
33	100.00	33.80	487.00	811.00	649.00	50	ce100l #13
34	100.00	66.03	487.00	811.00	649.00	50	ce100l #14
35	100.00	114.17	487.00	811.00	649.00	50	ce100l #15
36	100.00	4.23	945.00	1575.00	1260.00	50	ce100l #16
37	100.00	14.27	945.00	1575.00	1260.00	50	ce100l #17
38	100.00	33.80	945.00	1575.00	1260.00	50	ce100l #18
39	100.00	66.03	945.00	1575.00	1260.00	50	ce100l #19
40	100.00	114.17	945.00	1575.00	1260.00	50	ce100l #20
41	150.00	4.23	1919.00	3199.00	2559.00	50	ce150h #1
42	150.00	14.27	1919.00	3199.00	2559.00	50	ce150h #2
43	150.00	33.80	1919.00	3199.00	2559.00	50	ce150h #3
44	150.00	66.03	1919.00	3199.00	2559.00	50	ce150h #4
45	150.00	114.17	1919.00	3199.00	2559.00	50	ce150h #5
46	150.00	4.23	4572.00	5588.00	5080.00	50	ce150h #6
47	150.00	14.27	4572.00	5588.00	5080.00	50	ce150h #7
48	150.00	33.80	4572.00	5588.00	5080.00	50	ce150h #8
49	150.00	66.03	4572.00	5588.00	5080.00	50	ce150h #9
50	150.00	114.17	4572.00	5588.00	5080.00	50	ce150h #10

Data set: CE 88-177 Demnum S-20continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
51	150.00	4.23	6875.00	8403.00	7639.00	50	ce150h #11
52	150.00	14.27	6875.00	8403.00	7639.00	50	ce150h #12
53	150.00	33.80	6875.00	8403.00	7639.00	50	ce150h #13
54	150.00	66.03	6875.00	8403.00	7639.00	50	ce150h #14
55	150.00	114.17	6875.00	8403.00	7639.00	50	ce150h #15
56	150.00	4.23	9178.00	11217.00	10197.50	50	ce150h #16
57	150.00	14.27	9178.00	11217.00	10197.50	50	ce150h #17
58	150.00	33.80	9178.00	11217.00	10197.50	50	ce150h #18
59	150.00	66.03	9178.00	11217.00	10197.50	50	ce150h #19
60	150.00	114.17	9178.00	11217.00	10197.50	50	ce150h #20
61	150.00	4.23	114.00	190.00	152.00	50	ce150l #1
62	150.00	14.27	114.00	190.00	152.00	50	ce150l #2
63	150.00	33.80	114.00	190.00	152.00	50	ce150l #3
64	150.00	66.03	114.00	190.00	152.00	50	ce150l #4
65	150.00	114.17	114.00	190.00	152.00	50	ce150l #5
66	150.00	4.23	229.00	381.00	305.00	50	ce150l #6
67	150.00	14.27	229.00	381.00	305.00	50	ce150l #7
68	150.00	33.80	229.00	381.00	305.00	50	ce150l #8
69	150.00	66.03	229.00	381.00	305.00	50	ce150l #9
70	150.00	114.17	229.00	381.00	305.00	50	ce150l #10
71	150.00	4.23	487.00	811.00	649.00	50	ce150l #11
72	150.00	14.27	487.00	811.00	649.00	50	ce150l #12
73	150.00	33.80	487.00	811.00	649.00	50	ce150l #13
74	150.00	66.03	487.00	811.00	649.00	50	ce150l #14
75	150.00	114.17	487.00	811.00	649.00	50	ce150l #15
76	150.00	4.23	945.00	1575.00	1260.00	50	ce150l #16
77	150.00	14.27	945.00	1575.00	1260.00	50	ce150l #17
78	150.00	33.80	945.00	1575.00	1260.00	50	ce150l #18
79	150.00	66.03	945.00	1575.00	1260.00	50	ce150l #19
80	150.00	114.17	945.00	1575.00	1260.00	50	ce150l #20
81	200.00	4.23	1919.00	3199.00	2559.00	50	ce200h #1
82	200.00	14.27	1919.00	3199.00	2559.00	50	ce200h #2
83	200.00	33.80	1919.00	3199.00	2559.00	50	ce200h #3
84	200.00	66.03	1919.00	3199.00	2559.00	50	ce200h #4
85	200.00	114.17	1919.00	3199.00	2559.00	50	ce200h #5
86	200.00	4.23	4572.00	5588.00	5080.00	50	ce200h #6
87	200.00	14.27	4572.00	5588.00	5080.00	50	ce200h #7
88	200.00	33.80	4572.00	5588.00	5080.00	50	ce200h #8
89	200.00	66.03	4572.00	5588.00	5080.00	50	ce200h #9
90	200.00	114.17	4572.00	5588.00	5080.00	50	ce200h #10
91	200.00	4.23	6875.00	8403.00	7639.00	50	ce200h #11
92	200.00	14.27	6875.00	8403.00	7639.00	50	ce200h #12
93	200.00	33.80	6875.00	8403.00	7639.00	50	ce200h #13
94	200.00	66.03	6875.00	8403.00	7639.00	50	ce200h #14
95	200.00	114.17	6875.00	8403.00	7639.00	50	ce200h #15
96	200.00	4.23	9178.00	11217.00	10197.50	50	ce200h #16
97	200.00	14.27	9178.00	11217.00	10197.50	50	ce200h #17
98	200.00	33.80	9178.00	11217.00	10197.50	50	ce200h #18
99	200.00	66.03	9178.00	11217.00	10197.50	50	ce200h #19
100	200.00	114.17	9178.00	11217.00	10197.50	50	ce200h #20
101	200.00	4.23	114.00	190.00	152.00	50	ce200l #1
102	200.00	14.27	114.00	190.00	152.00	50	ce200l #2
103	200.00	33.80	114.00	190.00	152.00	50	ce200l #3
104	200.00	66.03	114.00	190.00	152.00	50	ce200l #4
105	200.00	114.17	114.00	190.00	152.00	50	ce200l #5
106	200.00	4.23	229.00	381.00	305.00	50	ce200l #6
107	200.00	14.27	229.00	381.00	305.00	50	ce200l #7
108	200.00	33.80	229.00	381.00	305.00	50	ce200l #8
109	200.00	66.03	229.00	381.00	305.00	50	ce200l #9
110	200.00	114.17	229.00	381.00	305.00	50	ce200l #10
111	200.00	4.23	487.00	811.00	649.00	50	ce200l #11
112	200.00	14.27	487.00	811.00	649.00	50	ce200l #12
113	200.00	33.80	487.00	811.00	649.00	50	ce200l #13
114	200.00	66.03	487.00	811.00	649.00	50	ce200l #14
115	200.00	114.17	487.00	811.00	649.00	50	ce200l #15
116	200.00	4.23	945.00	1575.00	1260.00	50	ce200l #16
117	200.00	14.27	945.00	1575.00	1260.00	50	ce200l #17
118	200.00	33.80	945.00	1575.00	1260.00	50	ce200l #18
119	200.00	66.03	945.00	1575.00	1260.00	50	ce200l #19
120	200.00	114.17	945.00	1575.00	1260.00	50	ce200l #20

Data set: CE 88-177 Demnum S-20continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
121	250.00	4.23	1919.00	3199.00	2559.00	50	ce250h #1
122	250.00	14.27	1919.00	3199.00	2559.00	50	ce250h #2
123	250.00	33.80	1919.00	3199.00	2559.00	50	ce250h #3
124	250.00	66.03	1919.00	3199.00	2559.00	50	ce250h #4
125	250.00	114.17	1919.00	3199.00	2559.00	50	ce250h #5
126	250.00	4.23	4572.00	5588.00	5080.00	50	ce250h #6
127	250.00	14.27	4572.00	5588.00	5080.00	50	ce250h #7
128	250.00	33.80	4572.00	5588.00	5080.00	50	ce250h #8
129	250.00	66.03	4572.00	5588.00	5080.00	50	ce250h #9
130	250.00	114.17	4572.00	5588.00	5080.00	50	ce250h #10
131	250.00	4.23	6875.00	8403.00	7639.00	50	ce250h #11
132	250.00	14.27	6875.00	8403.00	7639.00	50	ce250h #12
133	250.00	33.80	6875.00	8403.00	7639.00	50	ce250h #13
134	250.00	66.03	6875.00	8403.00	7639.00	50	ce250h #14
135	250.00	114.17	6875.00	8403.00	7639.00	50	ce250h #15
136	250.00	4.23	9178.00	11217.00	10197.50	50	ce250h #16
137	250.00	14.27	9178.00	11217.00	10197.50	50	ce250h #17
138	250.00	33.80	9178.00	11217.00	10197.50	50	ce250h #18
139	250.00	66.03	9178.00	11217.00	10197.50	50	ce250h #19
140	250.00	114.17	9178.00	11217.00	10197.50	50	ce250h #20
141	250.00	4.23	114.00	190.00	152.00	50	ce250l #1
142	250.00	14.27	114.00	190.00	152.00	50	ce250l #2
143	250.00	33.80	114.00	190.00	152.00	50	ce250l #3
144	250.00	66.03	114.00	190.00	152.00	50	ce250l #4
145	250.00	114.17	114.00	190.00	152.00	50	ce250l #5
146	250.00	4.23	229.00	381.00	305.00	50	ce250l #6
147	250.00	14.27	229.00	381.00	305.00	50	ce250l #7
148	250.00	33.80	229.00	381.00	305.00	50	ce250l #8
149	250.00	66.03	229.00	381.00	305.00	50	ce250l #9
150	250.00	114.17	229.00	381.00	305.00	50	ce250l #10
151	250.00	4.23	487.00	811.00	649.00	50	ce250l #11
152	250.00	14.27	487.00	811.00	649.00	50	ce250l #12
153	250.00	33.80	487.00	811.00	649.00	50	ce250l #13
154	250.00	66.03	487.00	811.00	649.00	50	ce250l #14
155	250.00	114.17	487.00	811.00	649.00	50	ce250l #15
156	250.00	4.23	945.00	1575.00	1260.00	50	ce250l #16
157	250.00	14.27	945.00	1575.00	1260.00	50	ce250l #17
158	250.00	33.80	945.00	1575.00	1260.00	50	ce250l #18
159	250.00	66.03	945.00	1575.00	1260.00	50	ce250l #19
160	250.00	114.17	945.00	1575.00	1260.00	50	ce250l #20
161	300.00	4.23	1919.00	3199.00	2559.00	50	ce300h #1
162	300.00	14.27	1919.00	3199.00	2559.00	50	ce300h #2
163	300.00	33.80	1919.00	3199.00	2559.00	50	ce300h #3
164	300.00	66.03	1919.00	3199.00	2559.00	50	ce300h #4
165	300.00	114.17	1919.00	3199.00	2559.00	50	ce300h #5
166	300.00	4.23	4572.00	5588.00	5080.00	50	ce300h #6
167	300.00	14.27	4572.00	5588.00	5080.00	50	ce300h #7
168	300.00	33.80	4572.00	5588.00	5080.00	50	ce300h #8
169	300.00	66.03	4572.00	5588.00	5080.00	50	ce300h #9
170	300.00	114.17	4572.00	5588.00	5080.00	50	ce300h #10
171	300.00	4.23	6875.00	8403.00	7639.00	50	ce300h #11
172	300.00	14.27	6875.00	8403.00	7639.00	50	ce300h #12
173	300.00	33.80	6875.00	8403.00	7639.00	50	ce300h #13
174	300.00	66.03	6875.00	8403.00	7639.00	50	ce300h #14
175	300.00	114.17	6875.00	8403.00	7639.00	50	ce300h #15
176	300.00	4.23	9178.00	11217.00	10197.50	50	ce300h #16
177	300.00	14.27	9178.00	11217.00	10197.50	50	ce300h #17
178	300.00	33.80	9178.00	11217.00	10197.50	50	ce300h #18
179	300.00	66.03	9178.00	11217.00	10197.50	50	ce300h #19
180	300.00	114.17	9178.00	11217.00	10197.50	50	ce300h #20
181	300.00	4.23	114.00	190.00	152.00	50	ce300l #1
182	300.00	14.27	114.00	190.00	152.00	50	ce300l #2
183	300.00	33.80	114.00	190.00	152.00	50	ce300l #3
184	300.00	66.03	114.00	190.00	152.00	50	ce300l #4
185	300.00	114.17	114.00	190.00	152.00	50	ce300l #5
186	300.00	4.23	229.00	381.00	305.00	50	ce300l #6
187	300.00	14.27	229.00	381.00	305.00	50	ce300l #7
188	300.00	33.80	229.00	381.00	305.00	50	ce300l #8
189	300.00	66.03	229.00	381.00	305.00	50	ce300l #9
190	300.00	114.17	229.00	381.00	305.00	50	ce300l #10

Data set: CE 88-177 Demnum S-20continued

	Temp F	Load lbf	Rpm1	Rpm2	RollRpm	Points	Dataset/Test #
191	300.00	4.23	487.00	811.00	649.00	50	ce300l #11
192	300.00	14.27	487.00	811.00	649.00	50	ce300l #12
193	300.00	33.80	487.00	811.00	649.00	50	ce300l #13
194	300.00	66.03	487.00	811.00	649.00	50	ce300l #14
195	300.00	114.17	487.00	811.00	649.00	50	ce300l #15
196	300.00	4.23	945.00	1575.00	1260.00	50	ce300l #16
197	300.00	14.27	945.00	1575.00	1260.00	50	ce300l #17
198	300.00	33.80	945.00	1575.00	1260.00	50	ce300l #18
199	300.00	66.03	945.00	1575.00	1260.00	50	ce300l #19
200	300.00	114.17	945.00	1575.00	1260.00	50	ce300l #20
201	80.00	4.23	1919.00	3199.00	2559.00	50	ce80h #1
202	80.00	14.27	1919.00	3199.00	2559.00	50	ce80h #2
203	80.00	33.80	1919.00	3199.00	2559.00	50	ce80h #3
204	80.00	66.03	1919.00	3199.00	2559.00	50	ce80h #4
205	80.00	114.17	1919.00	3199.00	2559.00	50	ce80h #5
206	80.00	4.23	4572.00	5588.00	5080.00	50	ce80h #6
207	80.00	14.27	4572.00	5588.00	5080.00	50	ce80h #7
208	80.00	33.80	4572.00	5588.00	5080.00	50	ce80h #8
209	80.00	66.03	4572.00	5588.00	5080.00	50	ce80h #9
210	80.00	114.17	4572.00	5588.00	5080.00	50	ce80h #10
211	80.00	4.23	6875.00	8403.00	7639.00	50	ce80h #11
212	80.00	14.27	6875.00	8403.00	7639.00	50	ce80h #12
213	80.00	33.80	6875.00	8403.00	7639.00	50	ce80h #13
214	80.00	66.03	6875.00	8403.00	7639.00	50	ce80h #14
215	80.00	114.17	6875.00	8403.00	7639.00	50	ce80h #15
216	80.00	4.23	9178.00	11217.00	10197.50	50	ce80h #16
217	80.00	14.27	9178.00	11217.00	10197.50	50	ce80h #17
218	80.00	33.80	9178.00	11217.00	10197.50	50	ce80h #18
219	80.00	66.03	9178.00	11217.00	10197.50	50	ce80h #19
220	80.00	114.17	9178.00	11217.00	10197.50	50	ce80h #20
221	80.00	4.23	114.00	190.00	152.00	50	ce80l #1
222	80.00	14.27	114.00	190.00	152.00	50	ce80l #2
223	80.00	33.80	114.00	190.00	152.00	50	ce80l #3
224	80.00	66.03	114.00	190.00	152.00	50	ce80l #4
225	80.00	114.17	114.00	190.00	152.00	50	ce80l #5
226	80.00	4.23	229.00	381.00	305.00	50	ce80l #6
227	80.00	14.27	229.00	381.00	305.00	50	ce80l #7
228	80.00	33.80	229.00	381.00	305.00	50	ce80l #8
229	80.00	66.03	229.00	381.00	305.00	50	ce80l #9
230	80.00	114.17	229.00	381.00	305.00	50	ce80l #10
231	80.00	4.23	487.00	811.00	649.00	50	ce80l #11
232	80.00	14.27	487.00	811.00	649.00	50	ce80l #12
233	80.00	33.80	487.00	811.00	649.00	50	ce80l #13
234	80.00	66.03	487.00	811.00	649.00	50	ce80l #14
235	80.00	114.17	487.00	811.00	649.00	50	ce80l #15
236	80.00	4.23	945.00	1575.00	1260.00	50	ce80l #16
237	80.00	14.27	945.00	1575.00	1260.00	50	ce80l #17
238	80.00	33.80	945.00	1575.00	1260.00	50	ce80l #18
239	80.00	66.03	945.00	1575.00	1260.00	50	ce80l #19
240	80.00	114.17	945.00	1575.00	1260.00	50	ce80l #20

Summary of Select Data Files

Filename	Temp	RollRpm	DataCurve #
ce1.dat	80.00	1260.00	237 238 239 240
ce2.dat	80.00	2559.00	202 203 204 205
ce3.dat	80.00	5080.00	207 208 209 210
ce4.dat	80.00	7639.00	212 213 214 215
ce5.dat	80.00	10197.50	217 218 219 220
ce6.dat	100.00	1260.00	37 38 39 40
ce7.dat	100.00	2559.00	2 3 4 5
ce8.dat	100.00	5080.00	7 8 9 10
ce9.dat	100.00	7639.00	12 13 14 15
ce10.dat	100.00	10197.50	17 18 19 20
ce11.dat	150.00	1260.00	77 78 79 80
ce12.dat	150.00	2559.00	42 43 44 45
ce13.dat	150.00	5080.00	47 48 49 50
ce14.dat	150.00	7639.00	52 53 54 55
ce15.dat	150.00	10197.50	57 58 59 60
ce16.dat	200.00	1260.00	117 118 119 120
ce17.dat	200.00	2559.00	82 83 84 85
ce18.dat	200.00	5080.00	87 88 89 90
ce19.dat	200.00	7639.00	92 93 94 95
ce20.dat	200.00	10197.50	97 98 99 100
ce21.dat	250.00	1260.00	157 158 159 160
ce22.dat	250.00	2559.00	122 123 124 125
ce23.dat	250.00	5080.00	127 128 129 130
ce24.dat	250.00	7639.00	132 133 134 135
ce25.dat	250.00	10197.50	137 138 139 140
ce26.dat	300.00	1260.00	197 198 199 200
ce27.dat	300.00	2559.00	162 163 164 165
ce28.dat	300.00	5080.00	167 168 169 170
ce29.dat	300.00	7639.00	172 173 174 175
ce30.dat	300.00	10197.50	177 178 179 180

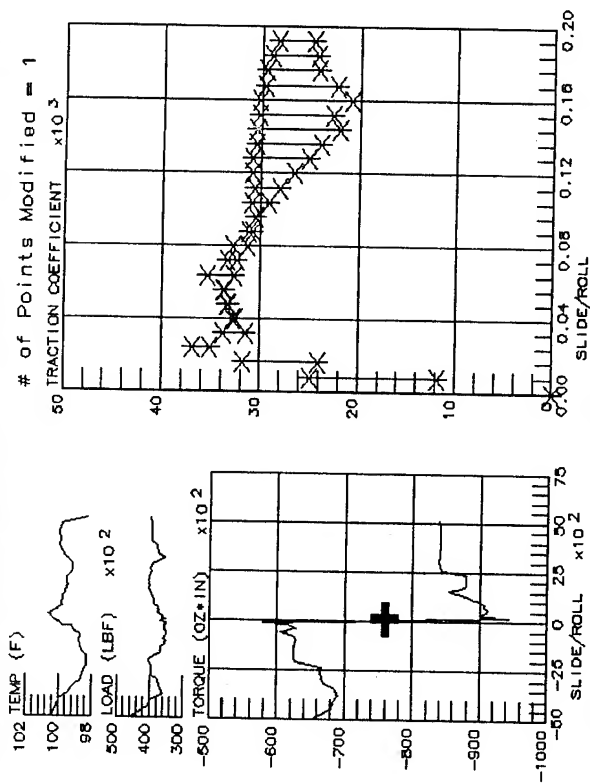
TRACTION DATA

CE 88-177 Demum S-20
100F 5LBF 2559RPM #1

FILE: ce100h

#1

of Points Modified = 1

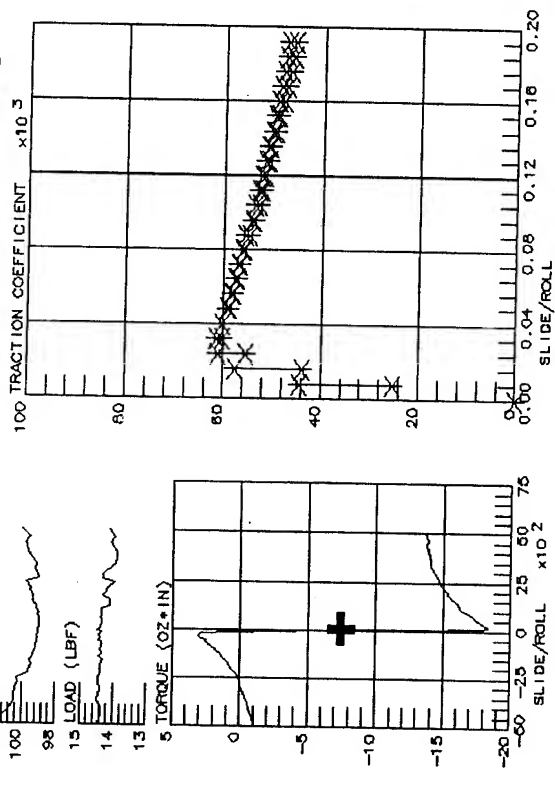


CE 88-177 Demum S-20
100F 15LBF 2559RPM #2

FILE: ce100h

#2

of Points Modified = 0

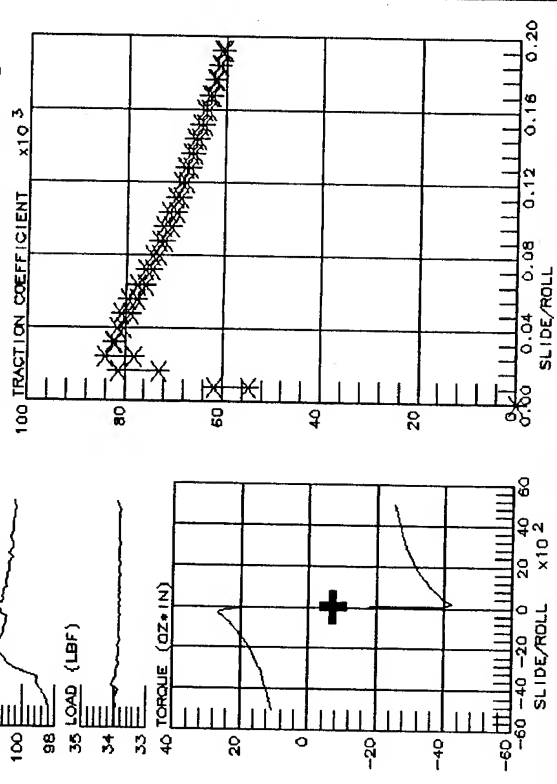


CE 88-177 Demum S-20
100F 34LBF 2559RPM #3

FILE: ce100h

#3

of Points Modified = 0

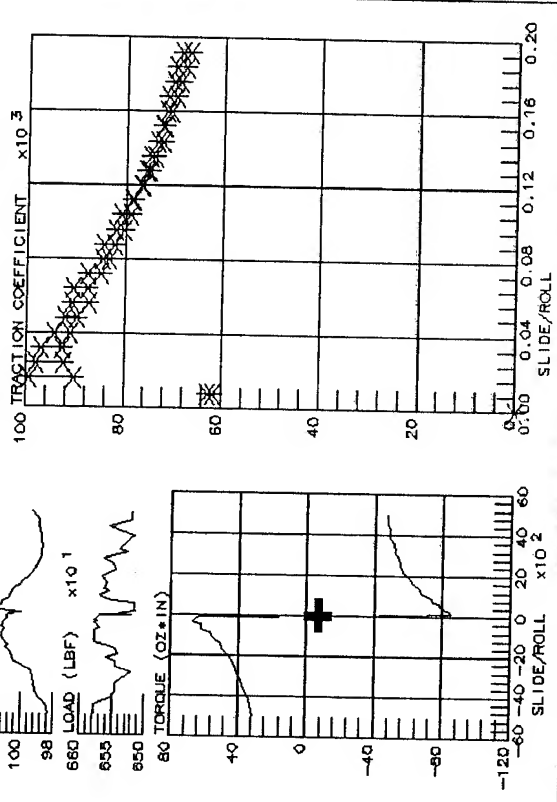


CE 88-177 Demum S-20
100F 67LBF 2559RPM #4

FILE: ce100h

#4

of Points Modified = 1



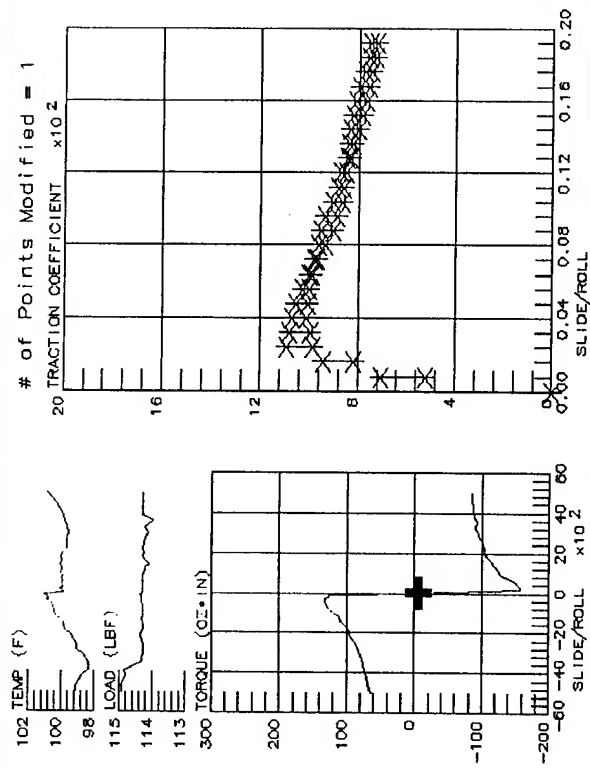
TRACTION DATA

CE 88-177 Datum S-20
100F 115LBF 2559RPM #5

FILE: ce100h

#5

of Points Modified = 1

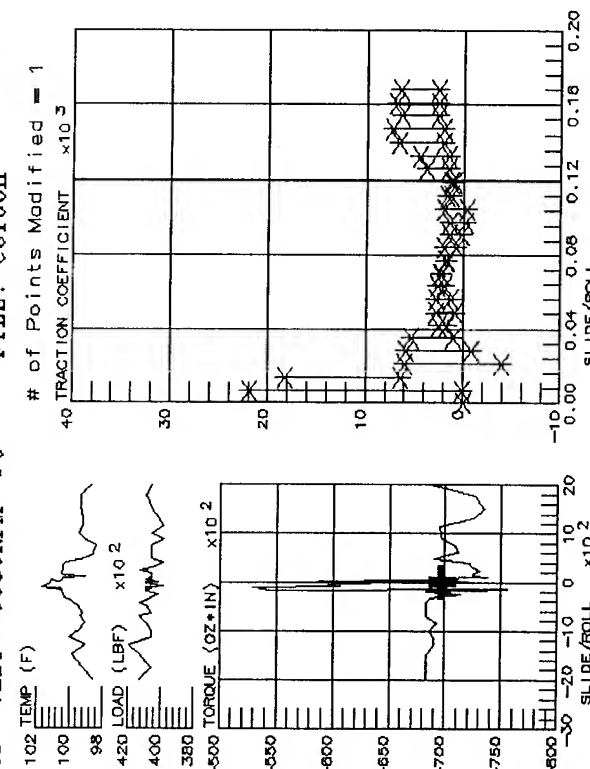


CE 88-177 Datum S-20
100F 5LBF 5080RPM #6

FILE: ce100h

#6

of Points Modified = 1

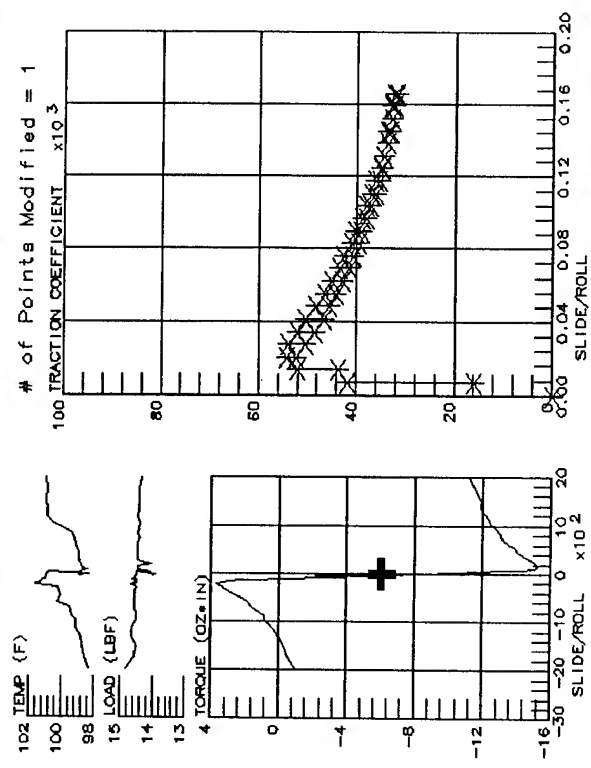


CE 88-177 Datum S-20
100F 15LBF 5080RPM #7

FILE: ce100h

#7

of Points Modified = 1

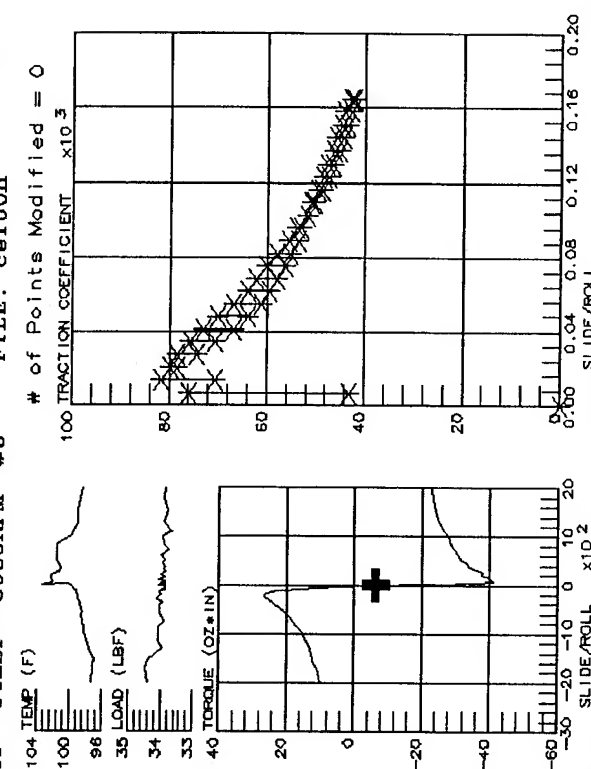


CE 88-177 Datum S-20
100F 34LBF 5080RPM #8

FILE: ce100h

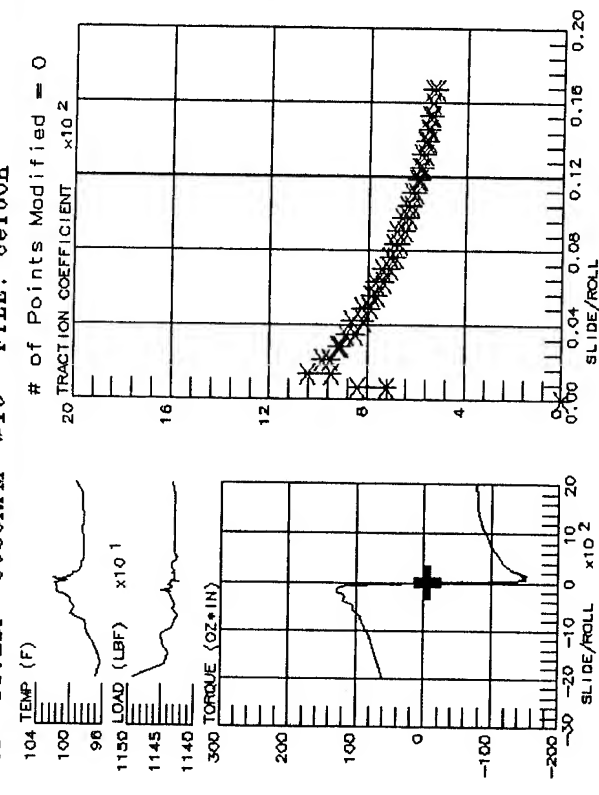
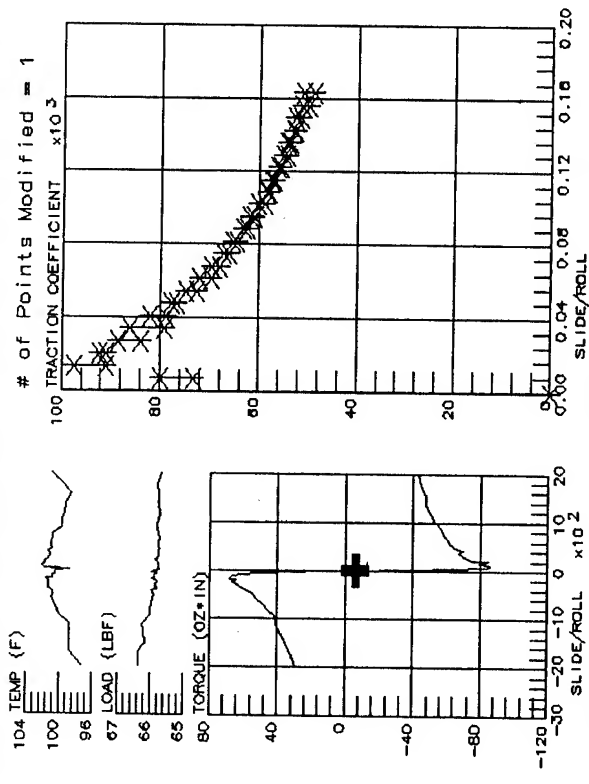
#8

of Points Modified = 0

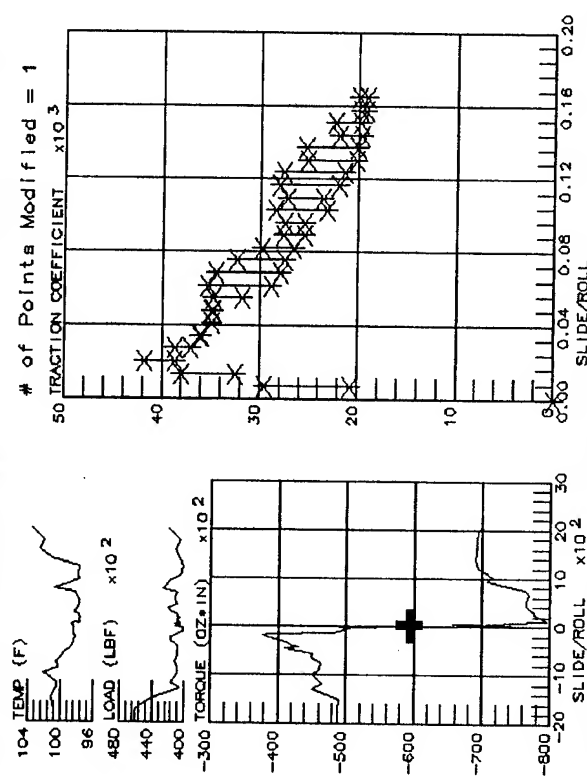


TRACTION DATA

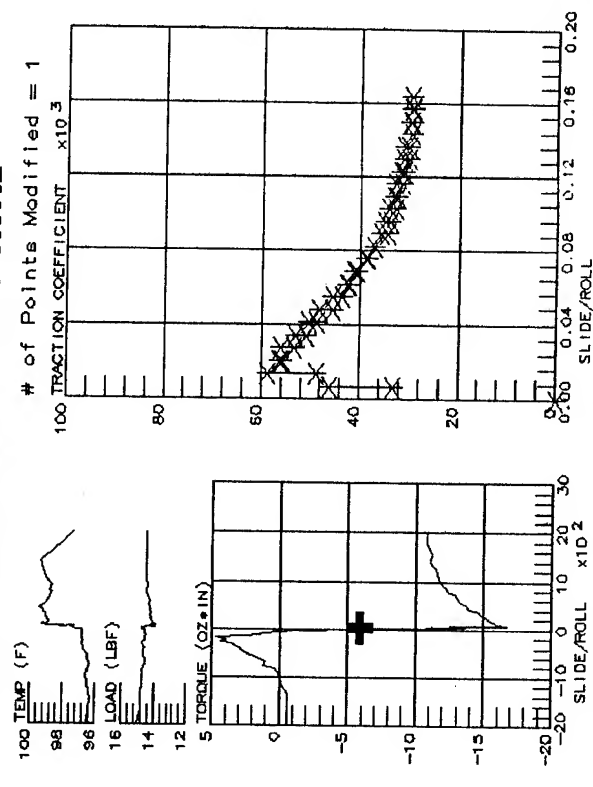
CE 88-177 Demum S-20
100F 67LBF 5080RPM #9 FILE: ce100h #9



CE 88-177 Demum S-20
100F 5LBF 7639RPM #11 FILE: ce100h #11



CE 88-177 Demum S-20
100F 15LBF 7639RPM #12 FILE: ce100h #12



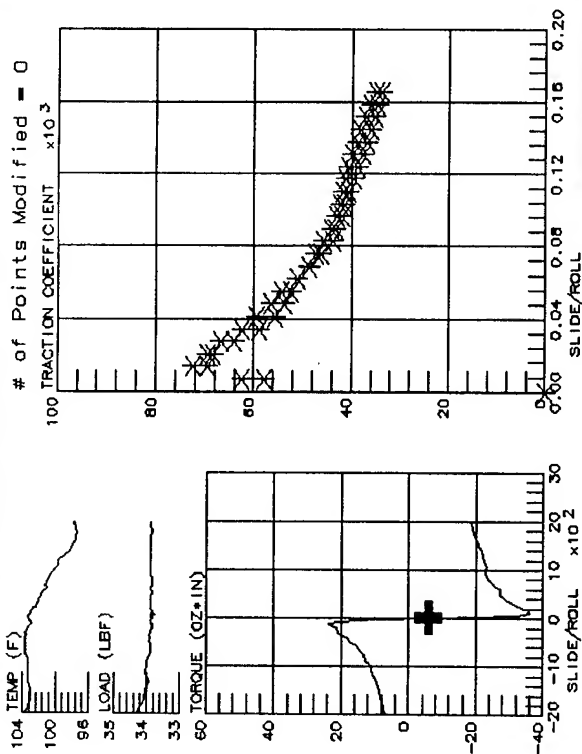
TRACTION DATA

CE 88-177 Demum S-20
100F 34LBF 7639RPM #13

FILE: ce100h

#13

of Points Modified = 0

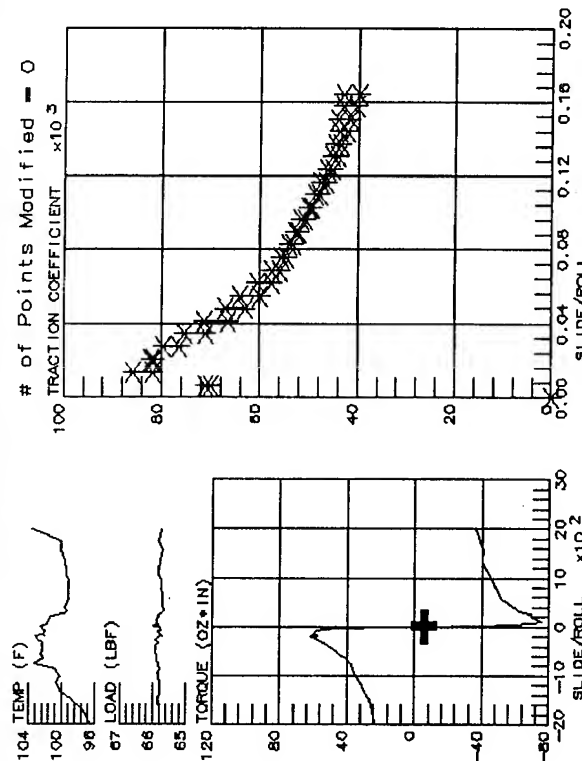


CE 88-177 Demum S-20
100F 87LBF 7639RPM #14

FILE: ce100h

#14

of Points Modified = 0

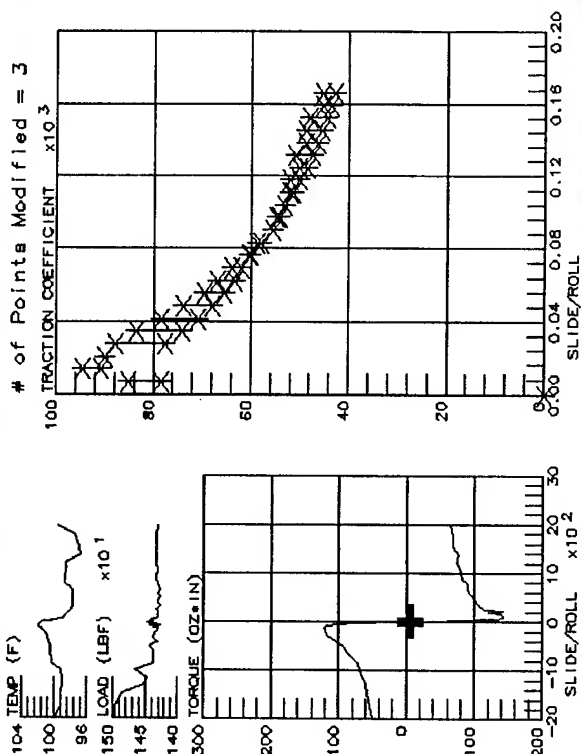


CE 88-177 Demum S-20
100F 115LBF 7639RPM #15

FILE: ce100h

#15

of Points Modified = 3

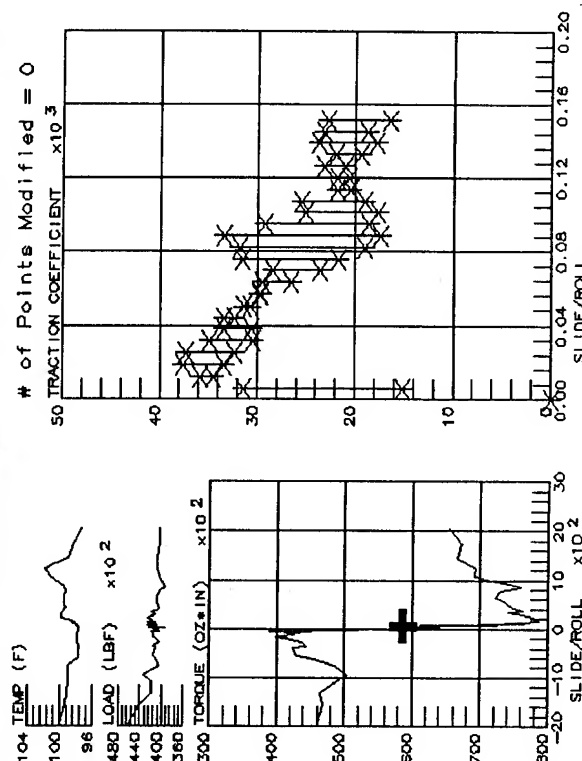


CE 88-177 Demum S-20
100F 51LBF 1019RPM #16

FILE: ce100h

#16

of Points Modified = 0



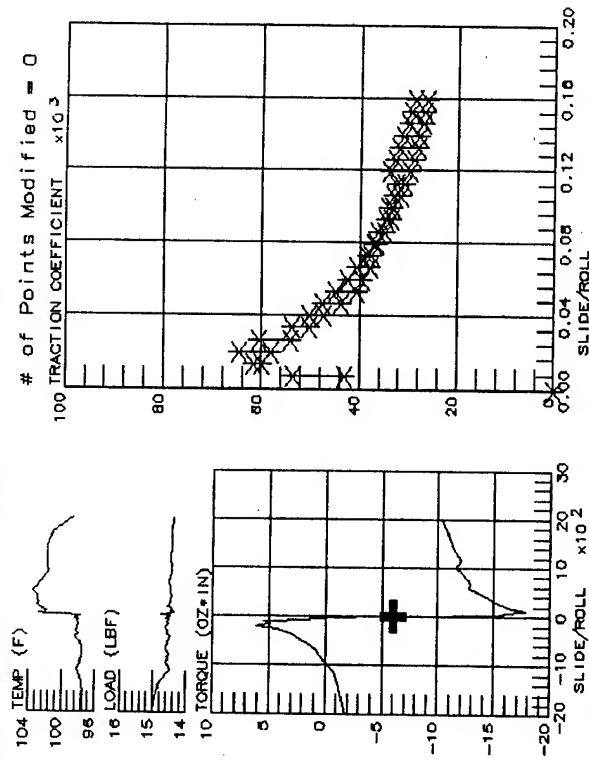
TRACTION DATA

CE 88-177 Demum S-20
100F 15LBF 10198RPM #17

FILE: ce100h

#17

of Points Modified = 0

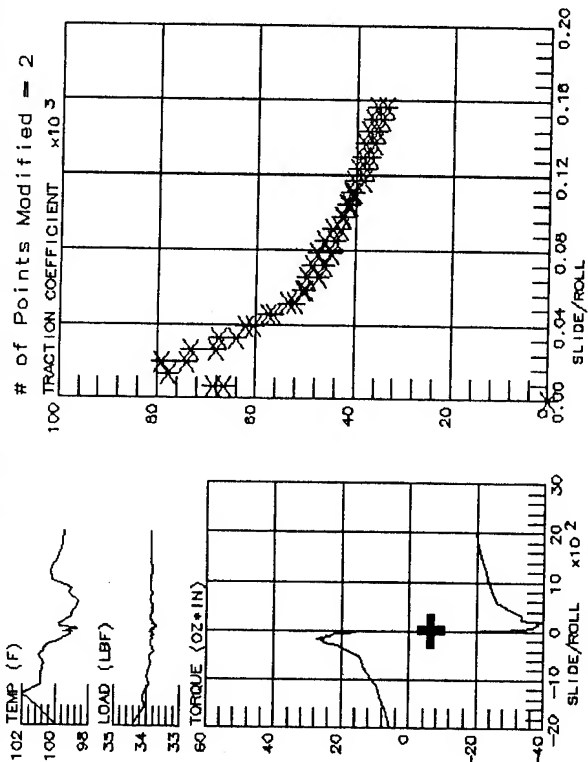


CE 88-177 Demum S-20
100F 34LBF 10198RPM #18

FILE: ce100h

#18

of Points Modified = 2

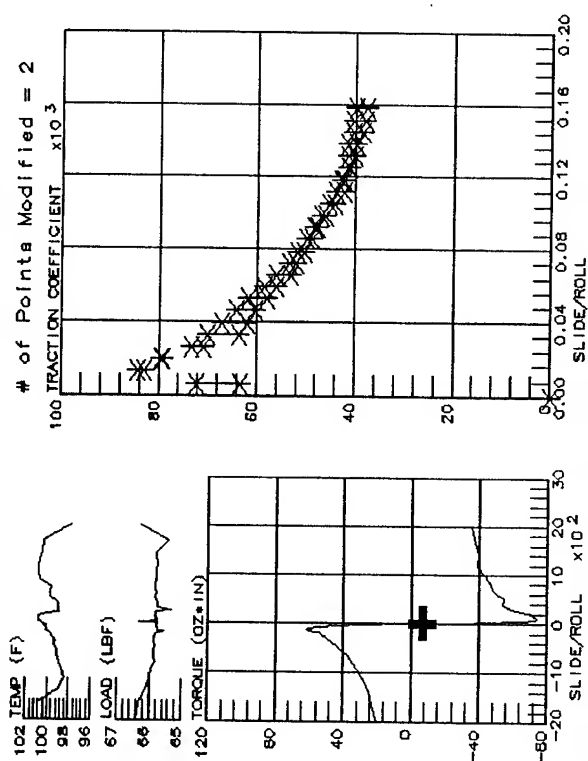


CE 88-177 Demum S-20
100F 87LBF 10198RPM #19

FILE: ce100h

#19

of Points Modified = 2

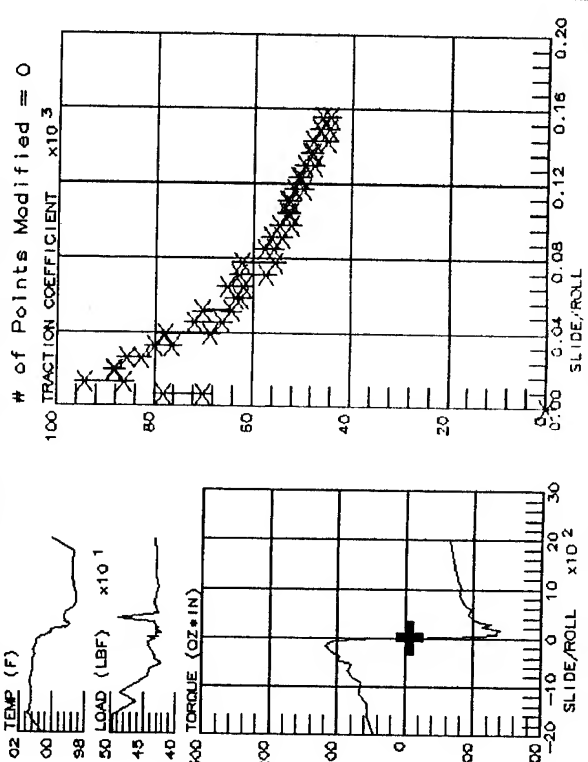


CE 88-177 Demum S-20
100F 115LBF 10198RPM #20

FILE: ce100h

#20

of Points Modified = 0



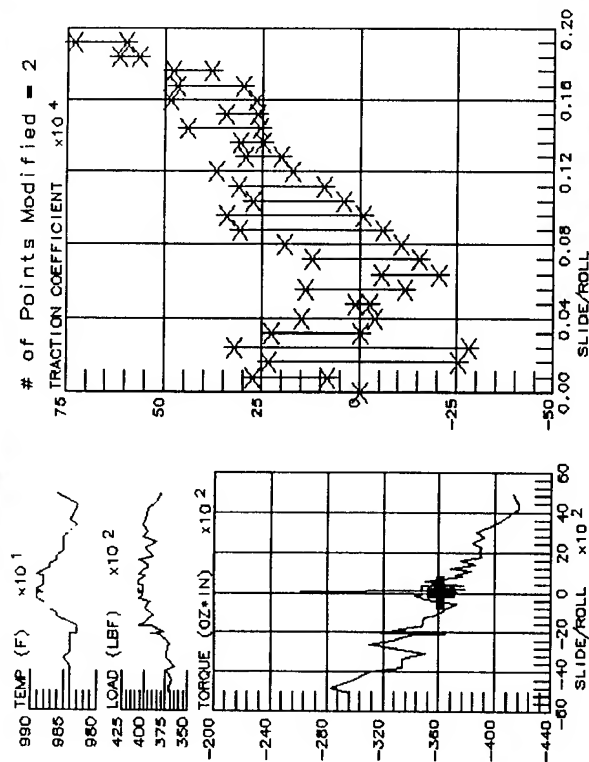
TRACTION DATA

CE 88-177 Demum S-20
100F 5LBF 152RPM #1

FILE: ce1001

#21

of Points Modified = 2

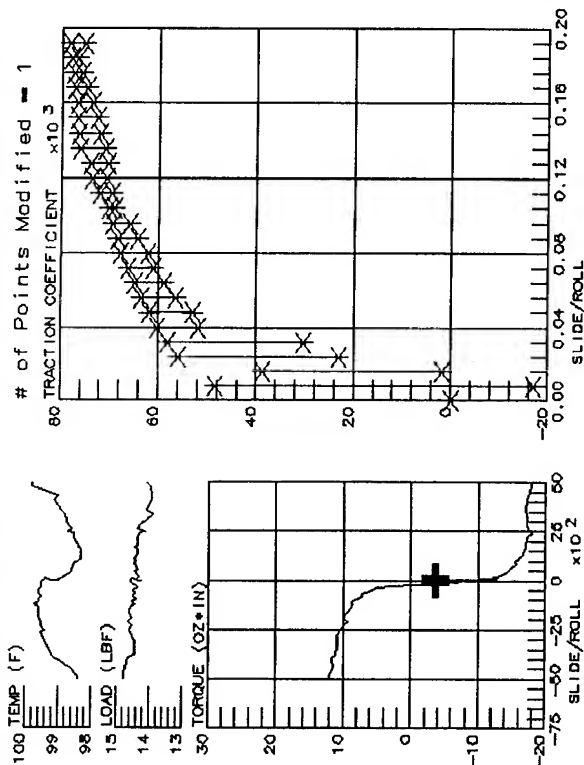


CE 88-177 Demum S-20
100F 15LBF 152RPM #2

FILE: ce1001

#22

of Points Modified = 1

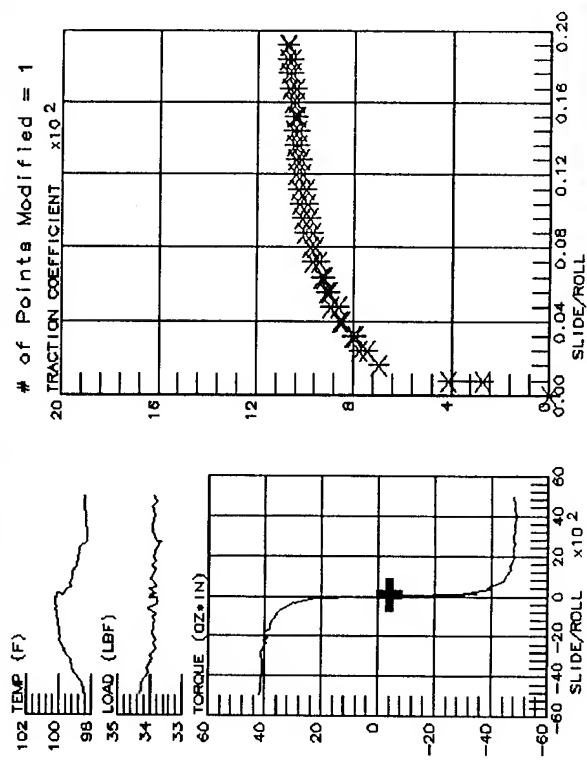


CE 88-177 Demum S-20
100F 34LBF 152RPM #3

FILE: ce1001

#23

of Points Modified = 1

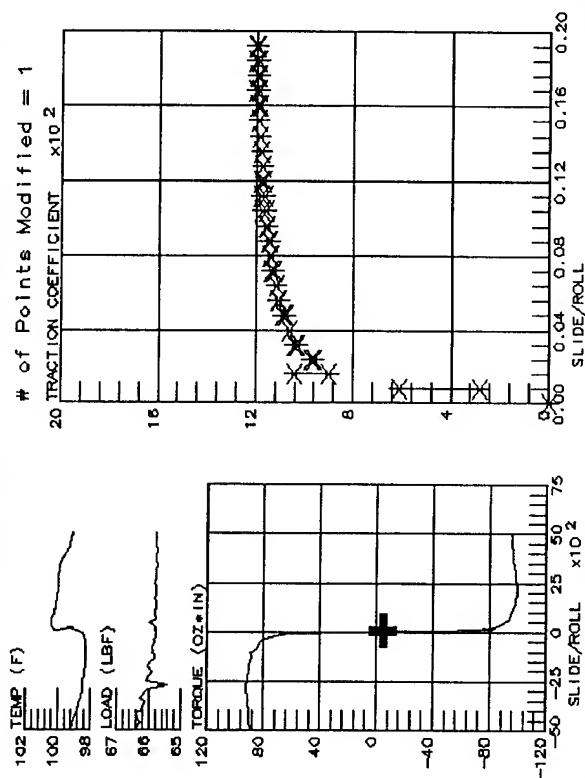


CE 88-177 Demum S-20
100F 67LBF 152RPM #4

FILE: ce1001

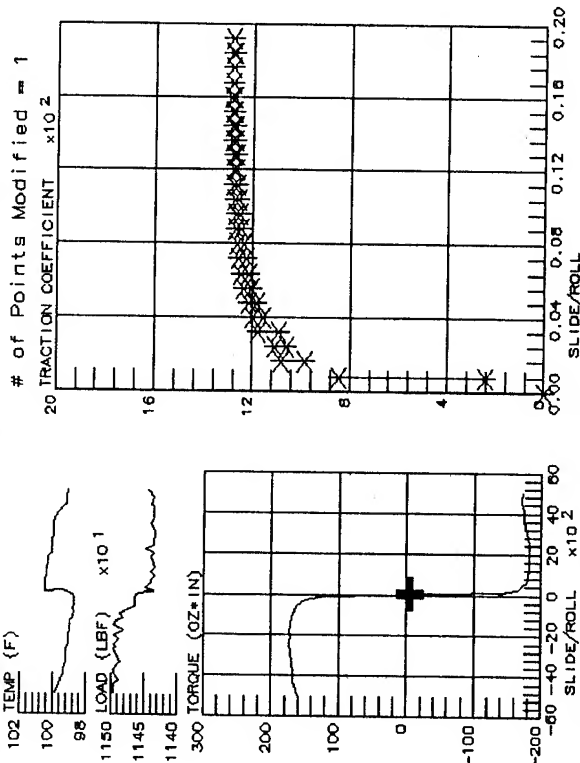
#24

of Points Modified = 1

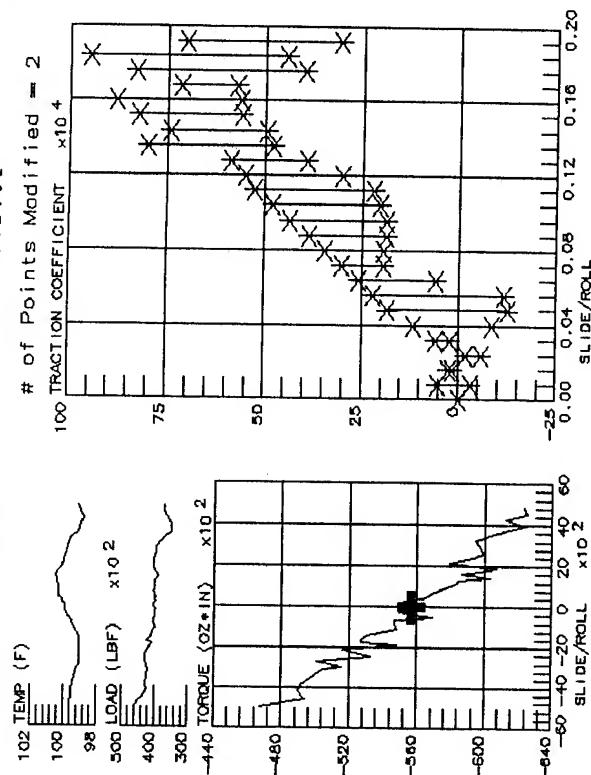


TRACTION DATA

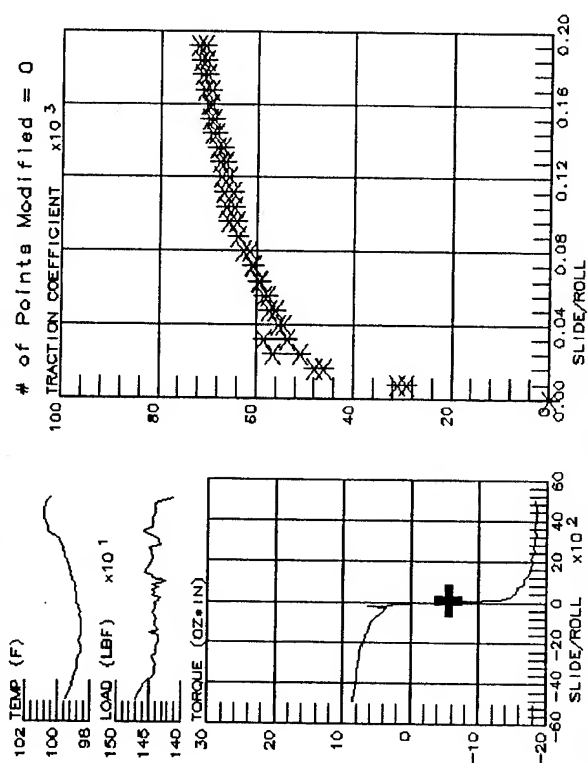
CE 88-177 Demum S-20
100F 115LBF 152RPM #5 FILE: ce1001 #25



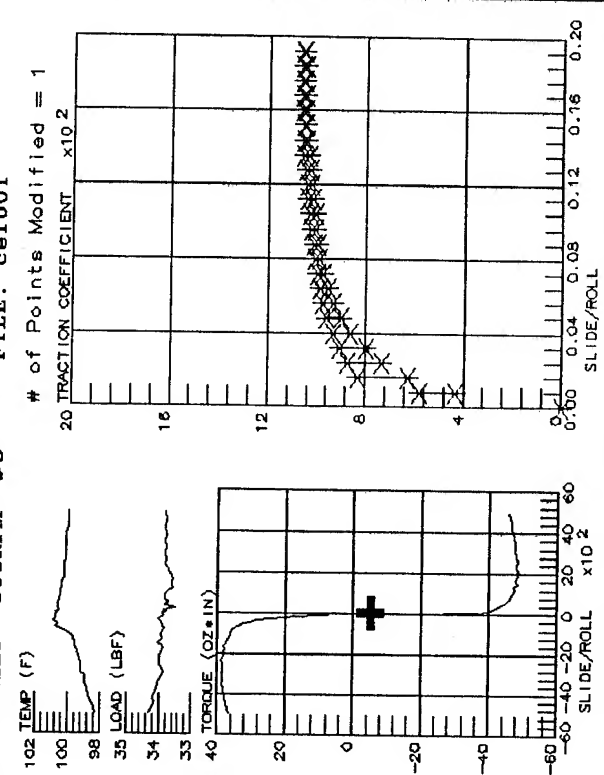
CE 88-177 Demum S-20
100F 5LBF 305RPM #8 FILE: ce1001 #26



CE 88-177 Demum S-20
100F 15LBF 305RPM #7 FILE: ce1001 #27



CE 88-177 Demum S-20
100F 34LBF 305RPM #8 FILE: ce1001 #28



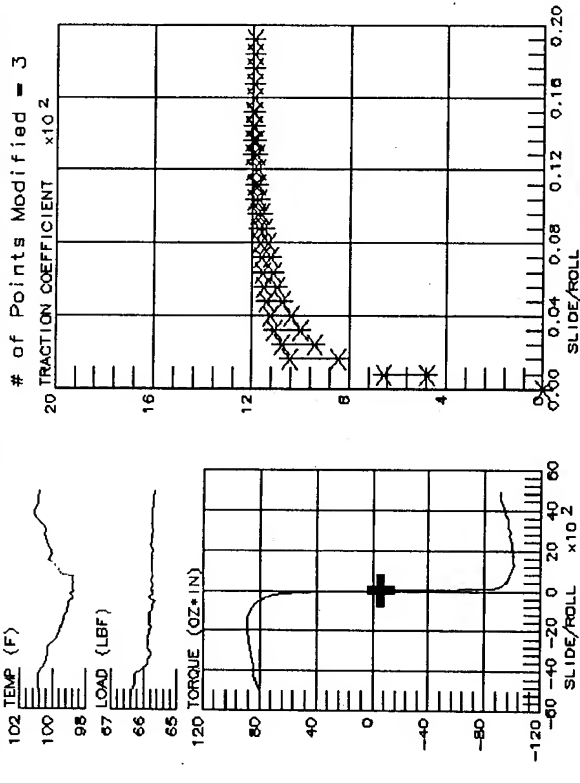
TRACTION DATA

CE 88-177 Demum S-20
100F 67LBF 305RPM #9

FILE: ce1001

#29

of Points Modified = 3

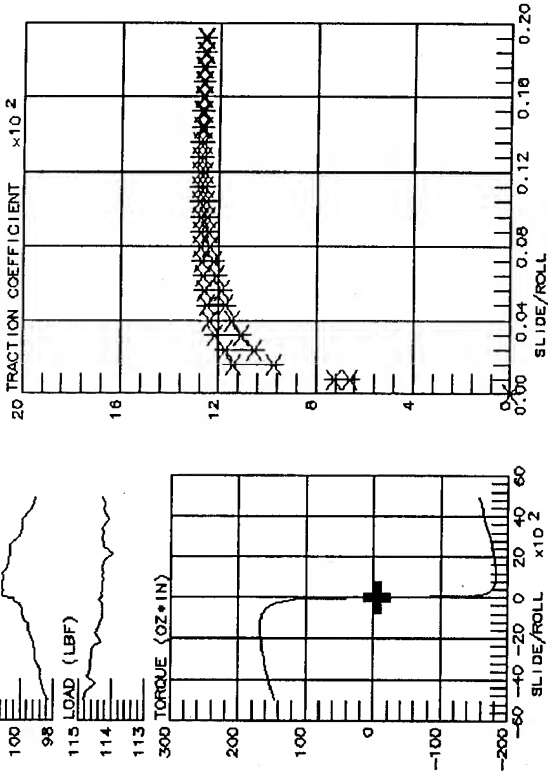


CE 88-177 Demum S-20
100F 115LBF 305RPM #10

FILE: ce1001

#30

of Points Modified = 0

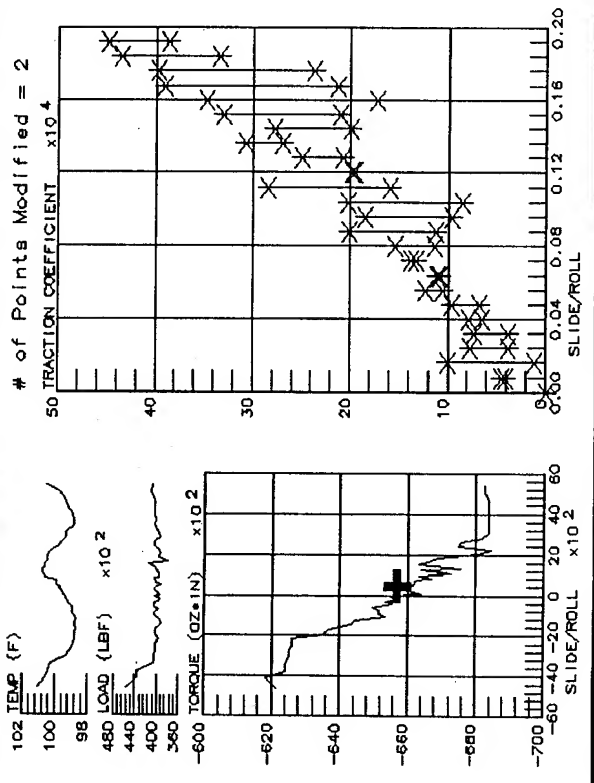


CE 88-177 Demum S-20
100F 51LBF 649RPM #11

FILE: ce1001

#31

of Points Modified = 2

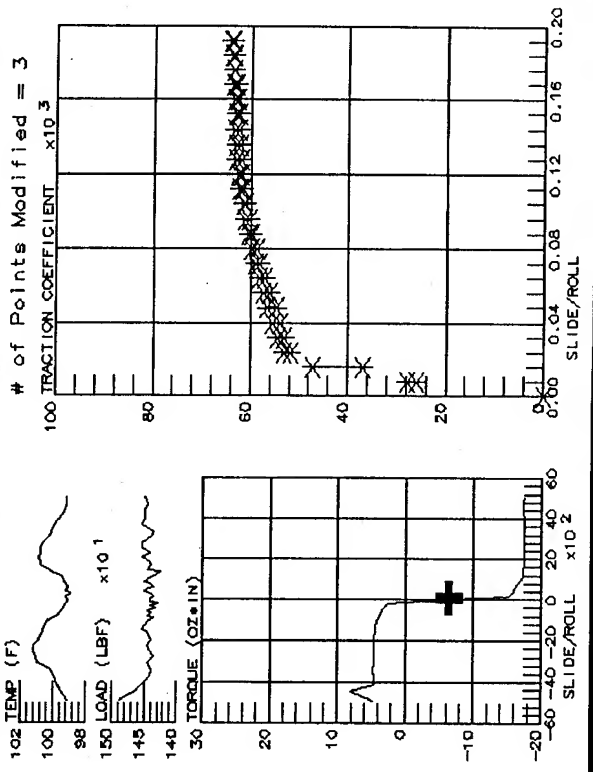


CE 88-177 Demum S-20
100F 15LBF 649RPM #12

FILE: ce1001

#32

of Points Modified = 3



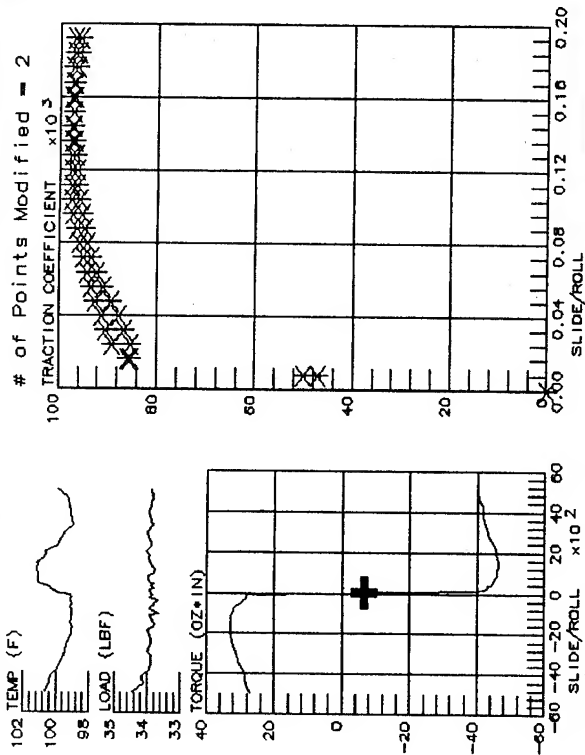
TRACTION DATA

CE 88-177 Demum S-20
100F 34LBF 649RPM #13

FILE: ce1001

#33

of Points Modified = 2

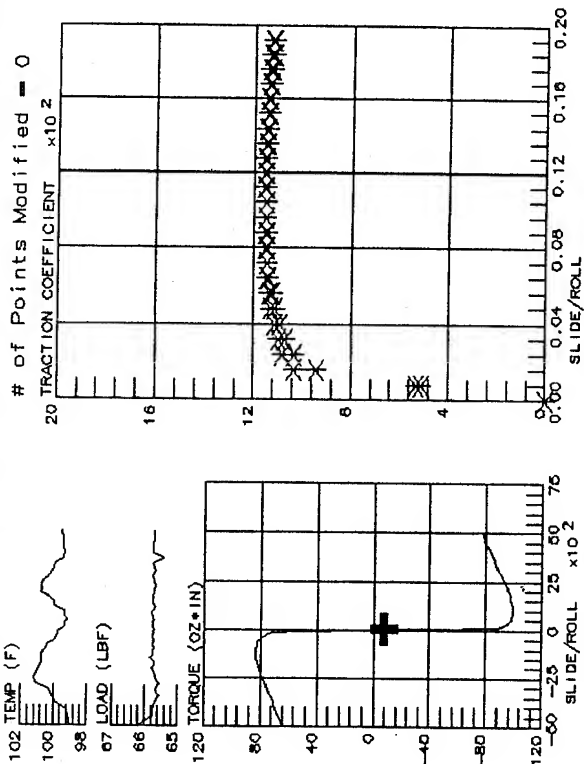


CE 88-177 Demum S-20
100F 67LBF 649RPM #14

FILE: ce1001

#34

of Points Modified = 0

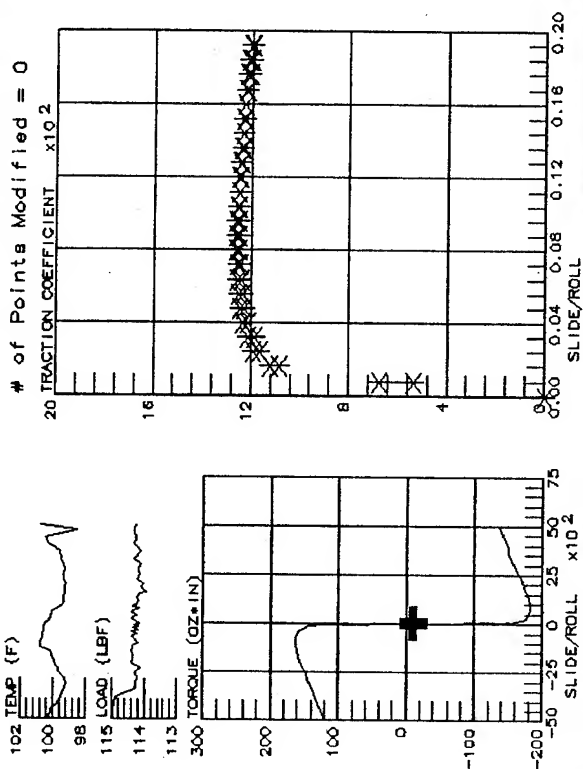


CE 88-177 Demum S-20
100F 115LBF 649RPM #15

FILE: ce1001

#35

of Points Modified = 0

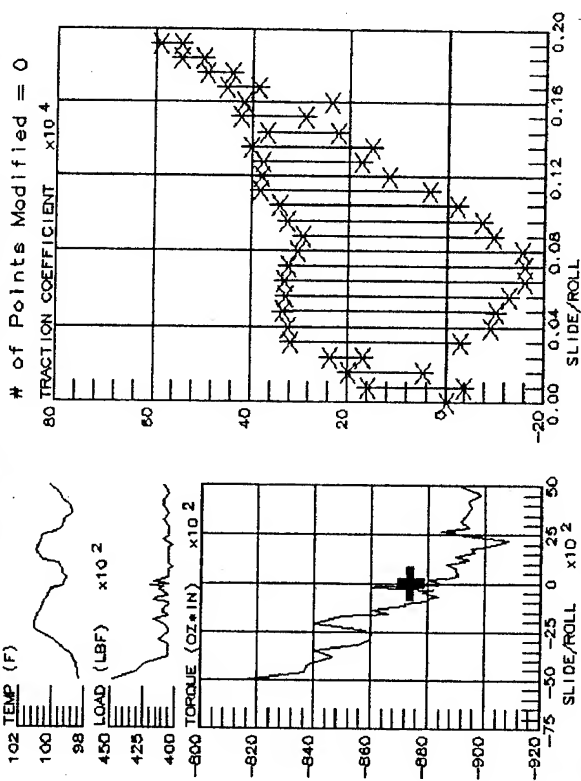


CE 88-177 Demum S-20
100F 5LB 1260RPM #16

FILE: ce1001

#36

of Points Modified = 0

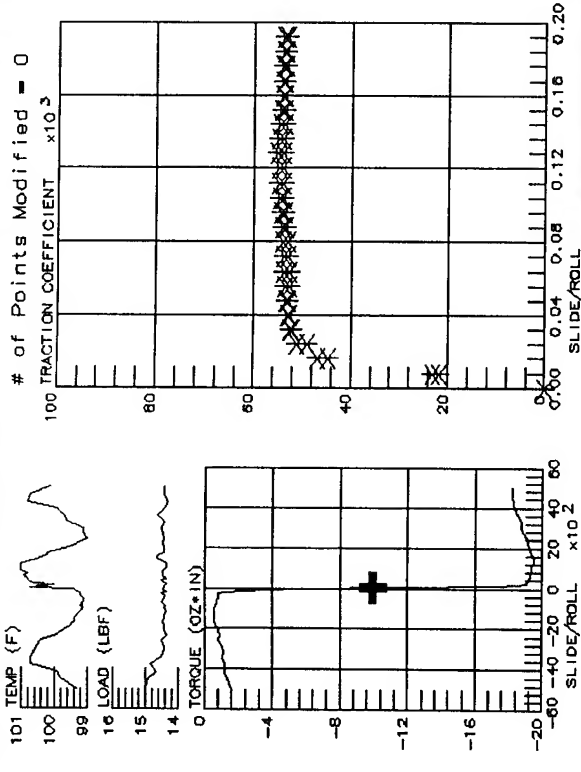


TRACTION DATA

CE 88-177 Demum S-20
100F 15LBF 1260RPM #17

FILE: ce1001

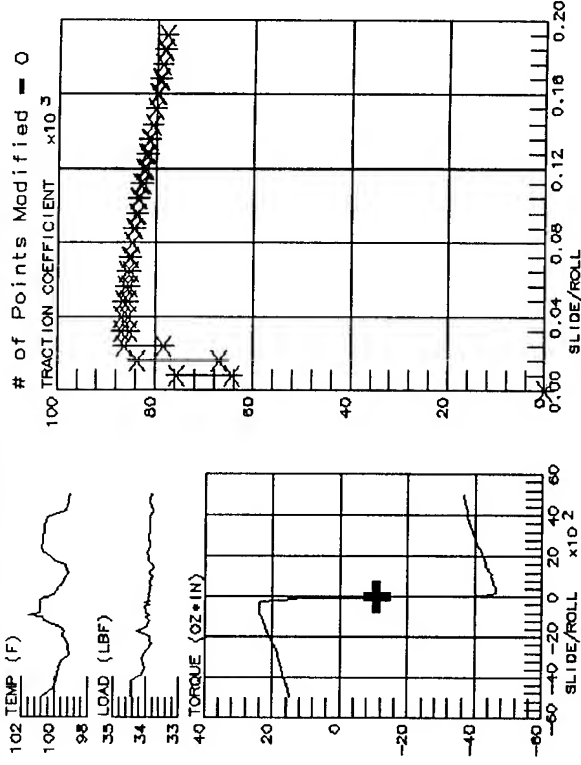
#37



CE 88-177 Demum S-20
100F 34LBF 1260RPM #18

FILE: ce1001

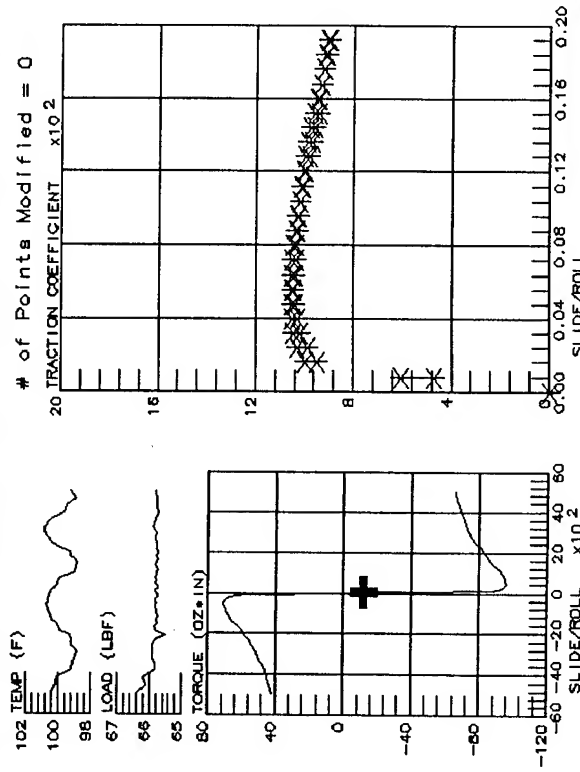
#38



CE 88-177 Demum S-20
100F 67LBF 1260RPM #19

FILE: ce1001

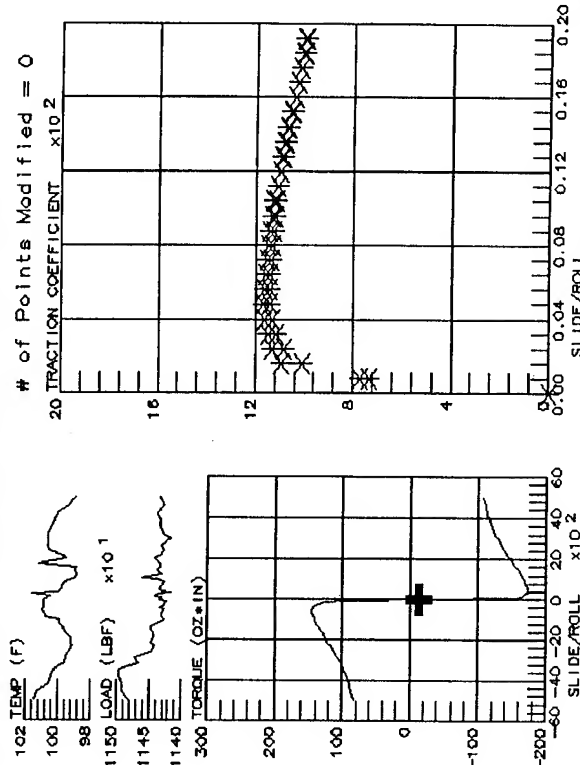
#39



CE 88-177 Demum S-20
100F 115LBF 1260RPM #20

FILE: ce1001

#40



TRACTION DATA

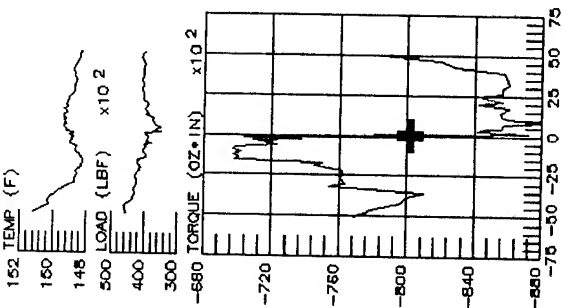
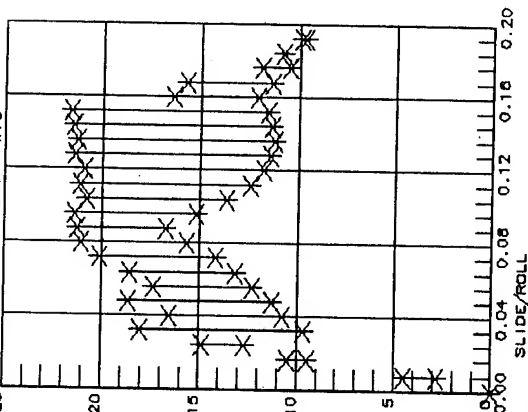
CE 88-177 Demum S-20
150F 5LBF 2559RPM #1

FILE: ce150h

#41

of Points Modified = 0

25 TRACTION COEFFICIENT $\times 10^3$



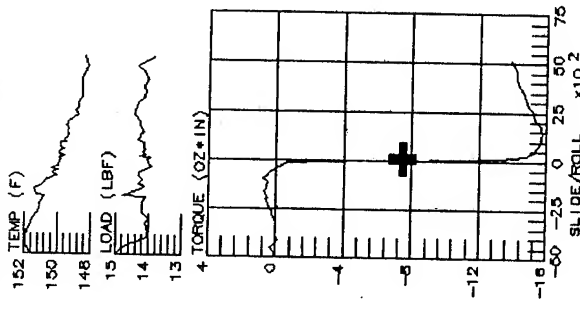
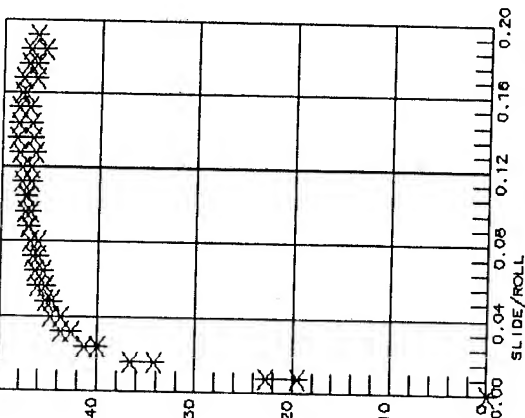
CE 88-177 Demum S-20
150F 15LBF 2559RPM #2

FILE: ce150h

#42

of Points Modified = 1

50 TRACTION COEFFICIENT $\times 10^3$



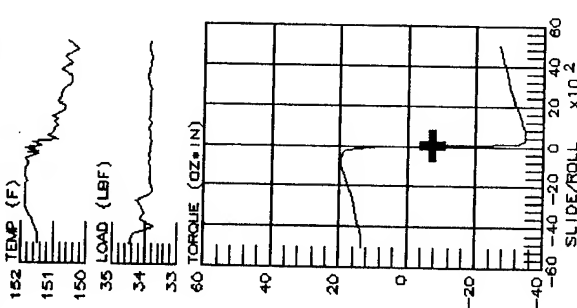
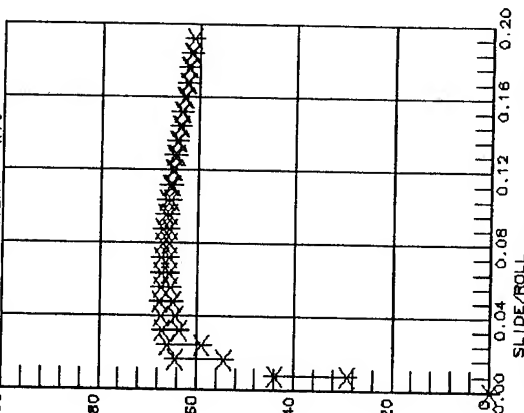
CE 88-177 Demum S-20
150F 34LBF 2559RPM #3

FILE: ce150h

#43

of Points Modified = 1

100 TRACTION COEFFICIENT $\times 10^3$



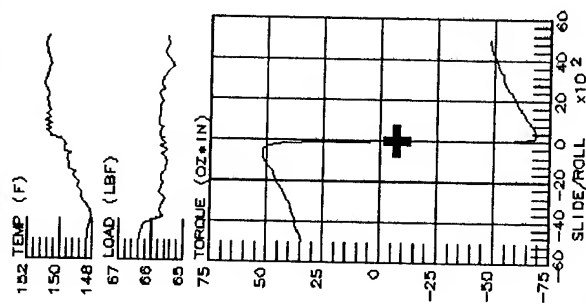
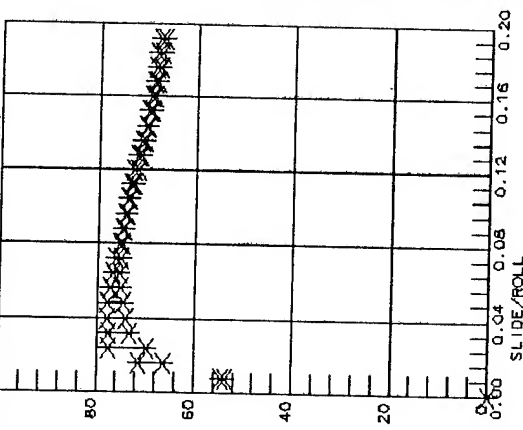
CE 88-177 Demum S-20
150F 67LBF 2559RPM #4

FILE: ce150h

#44

of Points Modified = 0

100 TRACTION COEFFICIENT $\times 10^3$



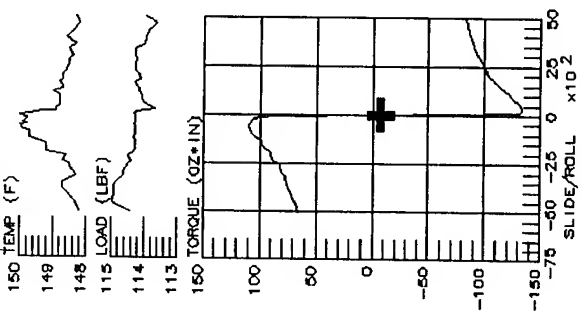
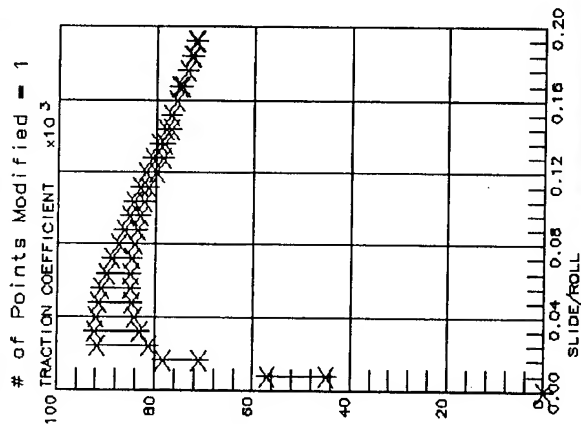
TRACTION DATA

CE 88-177 Datum S-20
150F 115LBF 2559RPM #5

FILE: ce150h

#45

of Points Modified = 1

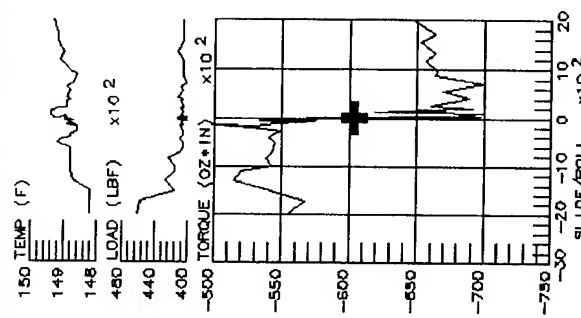
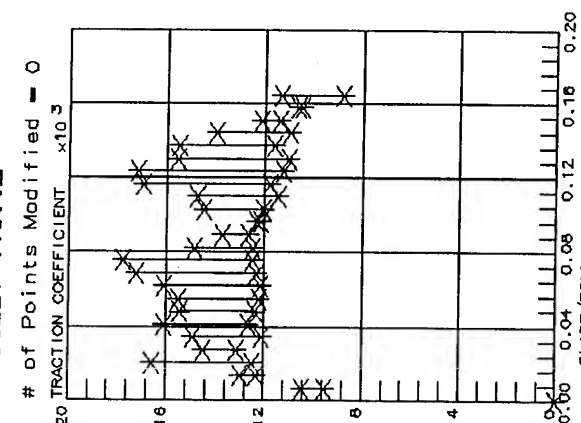


CE 88-177 Datum S-20
150F 5LB 5080RPM #6

FILE: ce150h

#46

of Points Modified = 0

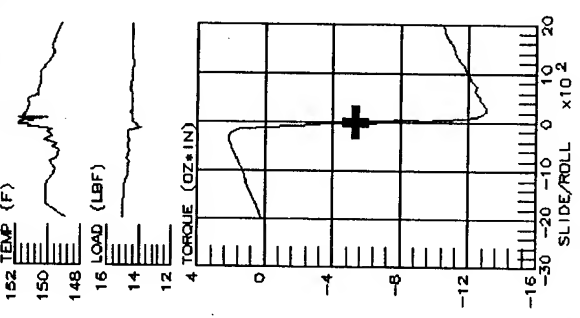
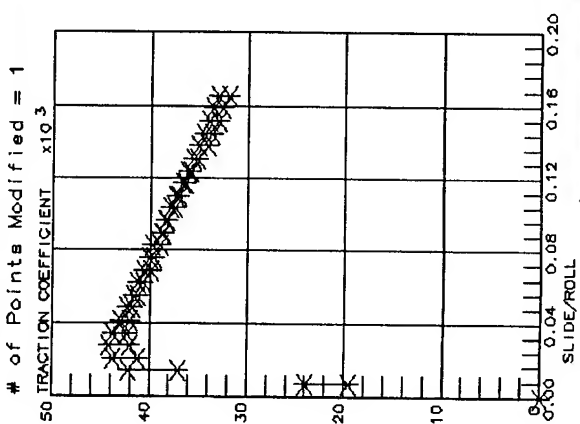


CE 88-177 Datum S-20
150F 15LBF 5080RPM #7

FILE: ce150h

#47

of Points Modified = 1

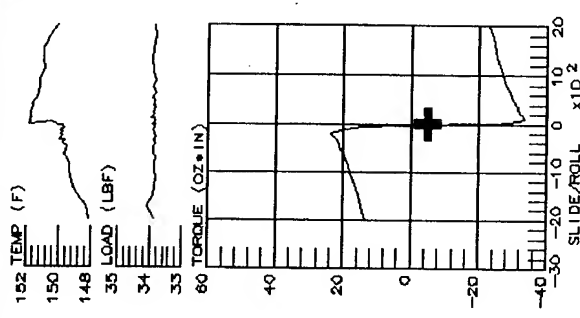
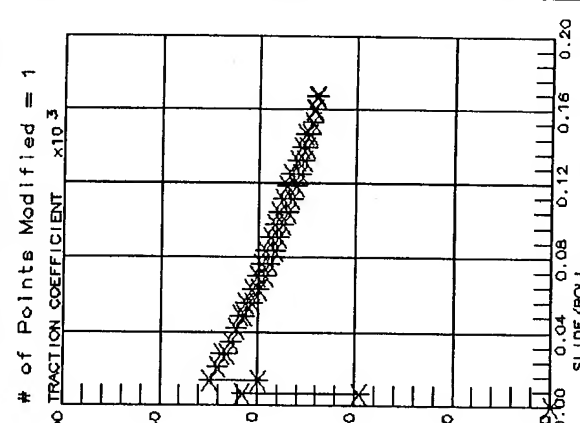


CE 88-177 Datum S-20
150F 34LBF 5080RPM #8

FILE: ce150h

#48

of Points Modified = 1



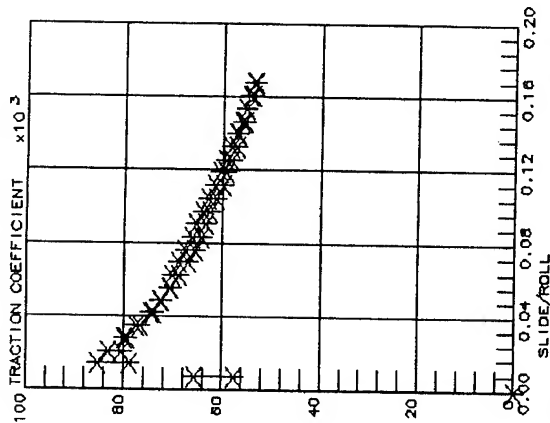
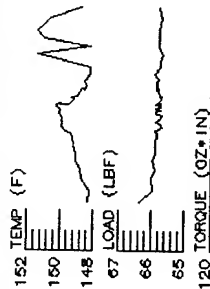
TRACTION DATA

CE 88-177 Demum S-20
150F 87LBF 5080RPM #9

FILE: ce150h

#49

of Points Modified = 0
TRACTION COEFFICIENT $\times 10^3$

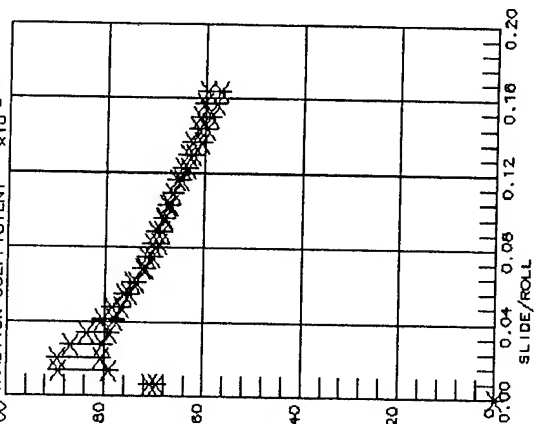
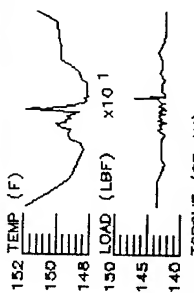


CE 88-177 Demum S-20
150F 115LBF 5080RPM #10

FILE: ce150h

#50

of Points Modified = 1
TRACTION COEFFICIENT $\times 10^3$

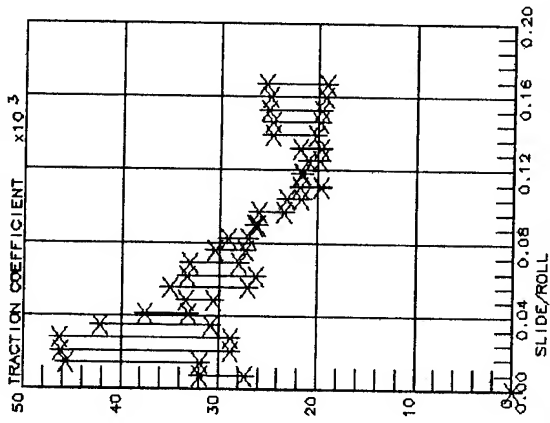
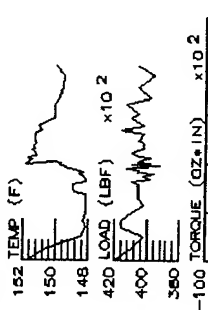


CE 88-177 Demum S-20
150F 5LBF 7639RPM #11

FILE: ce150h

#51

of Points Modified = 0
TRACTION COEFFICIENT $\times 10^3$

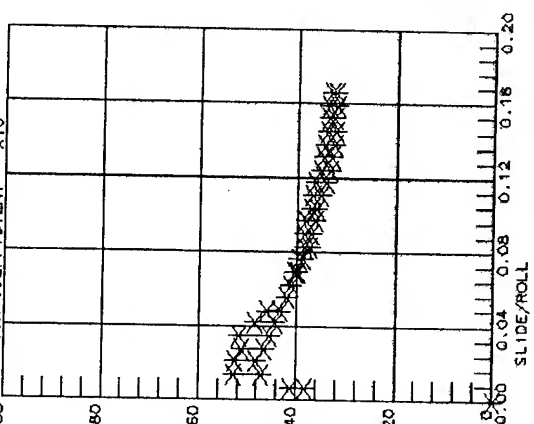
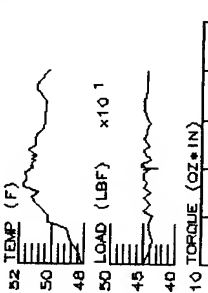


CE 88-177 Demum S-20
150F 15LBF 7639RPM #12

FILE: ce150h

#52

of Points Modified = 1
TRACTION COEFFICIENT $\times 10^3$



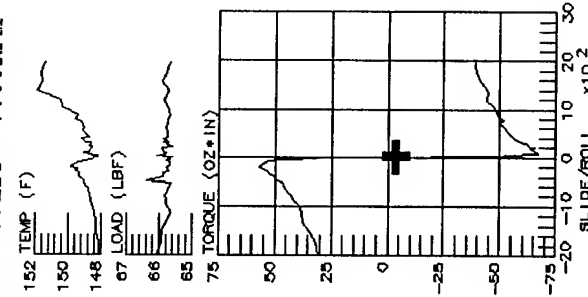
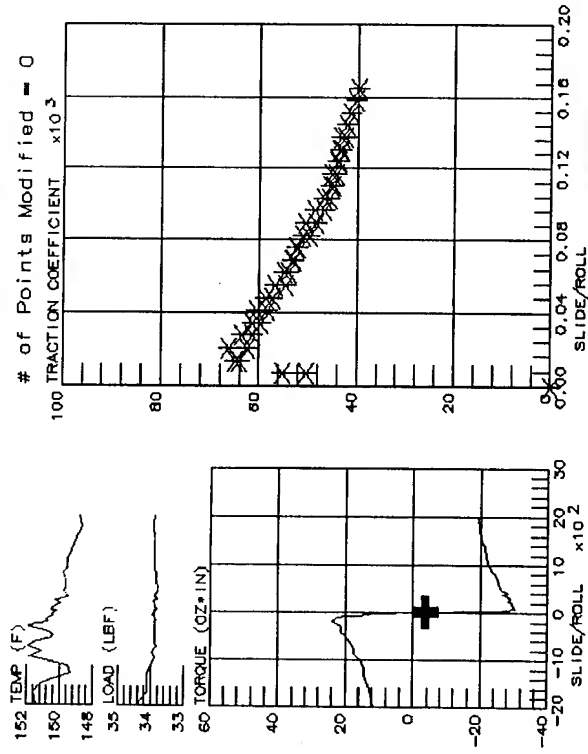
TRACTION DATA

CE 88-177 Demum S-20
150F 34LBF 7639RPM #13

FILE: ce150h

#53

of Points Modified = 0

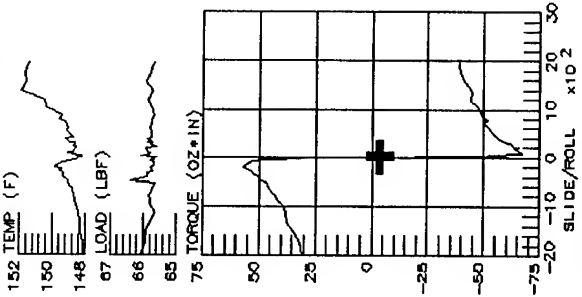
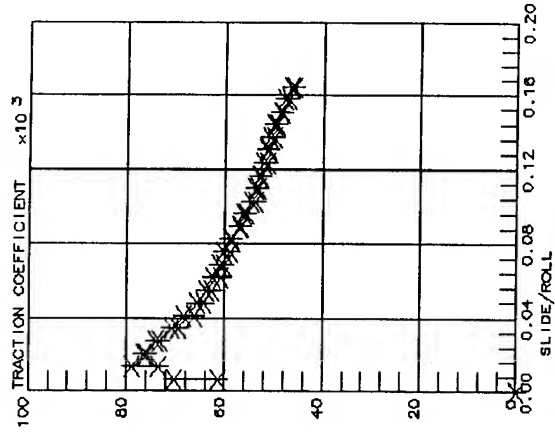


CE 88-177 Demum S-20
150F 67LBF 7639RPM #14

FILE: ce150h

#54

of Points Modified = 0

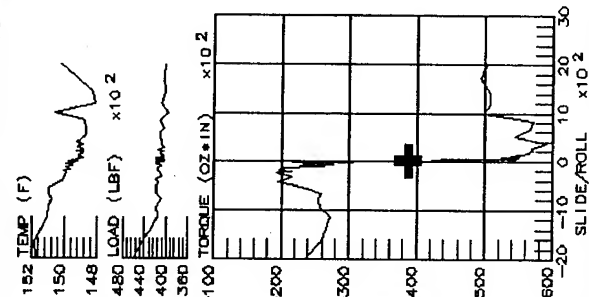
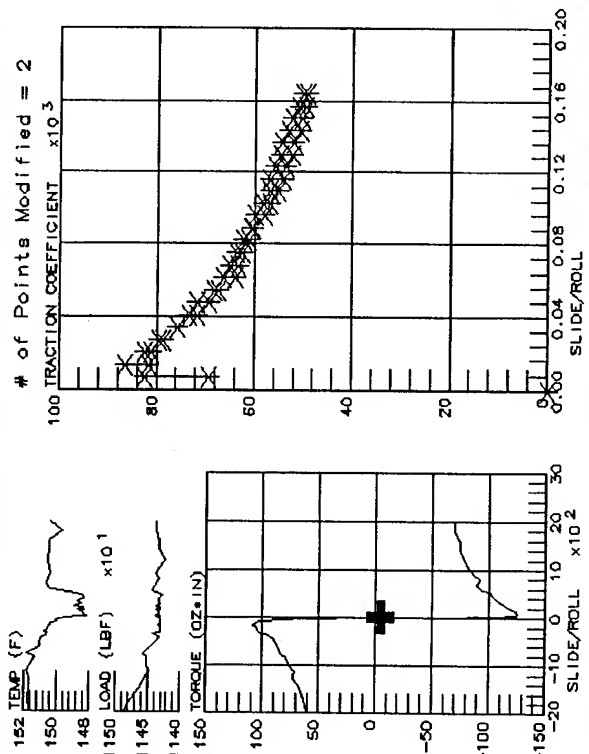


CE 88-177 Demum S-20
150F 115LBF 7639RPM #15

FILE: ce150h

#55

of Points Modified = 2

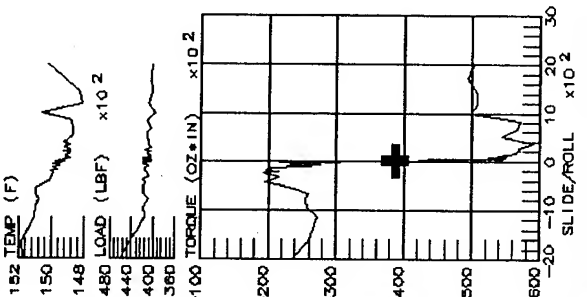
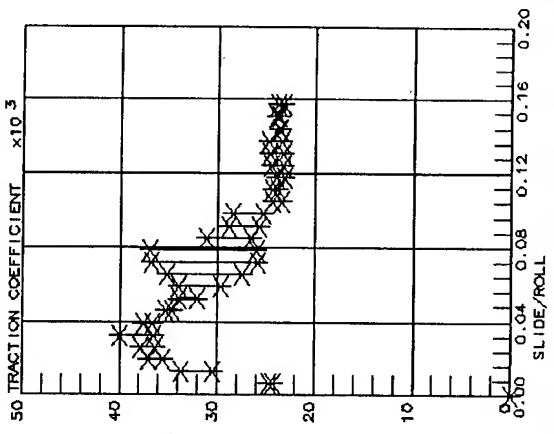


CE 88-177 Demum S-20
150F 51LBF 10198RPM #16

FILE: ce150h

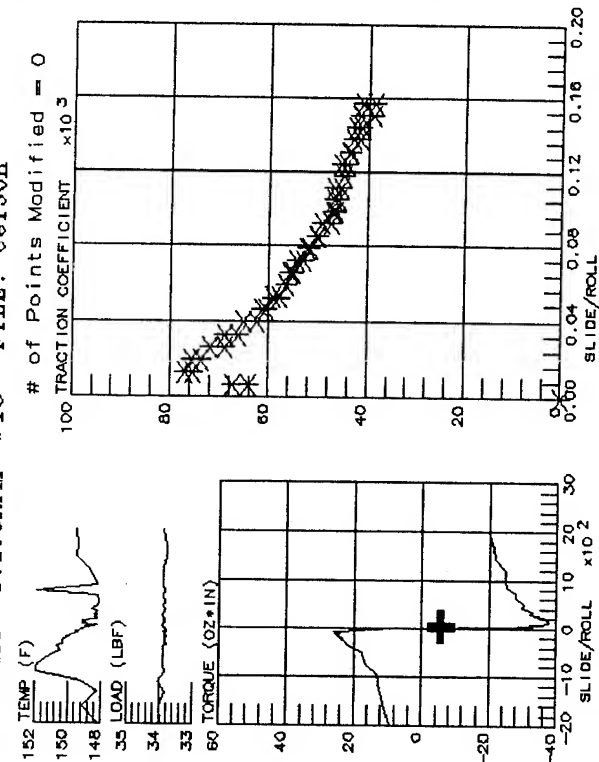
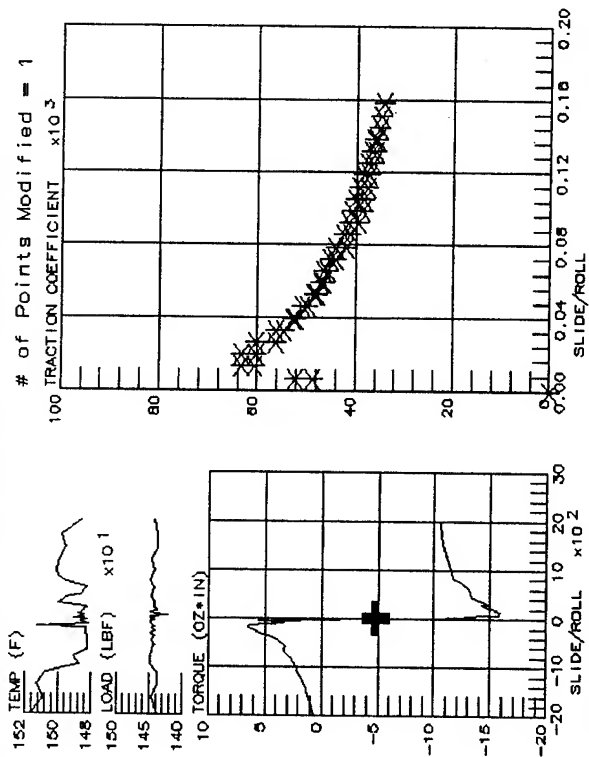
#56

of Points Modified = 0

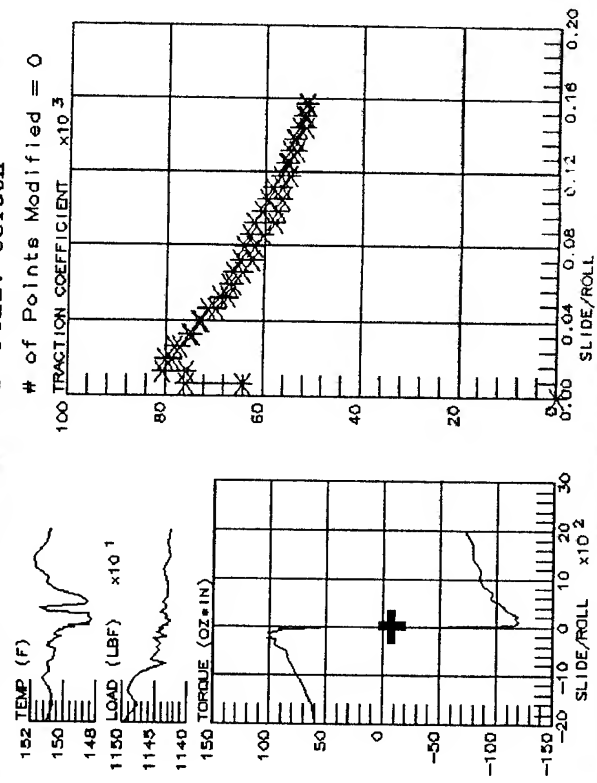
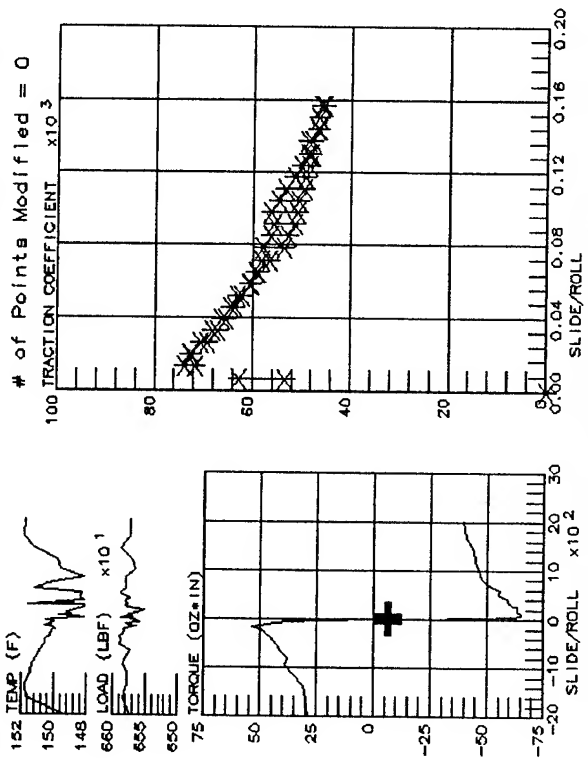


TRACTION DATA

CE 88-177 Demum S-20 #57 FILE: ce150h
150F 15LBF 10198RPM #17 # of Points Modified = 1



CE 88-177 Demum S-20 #59 FILE: ce150h
150F 67LBF 10198RPM #19 # of Points Modified = 0



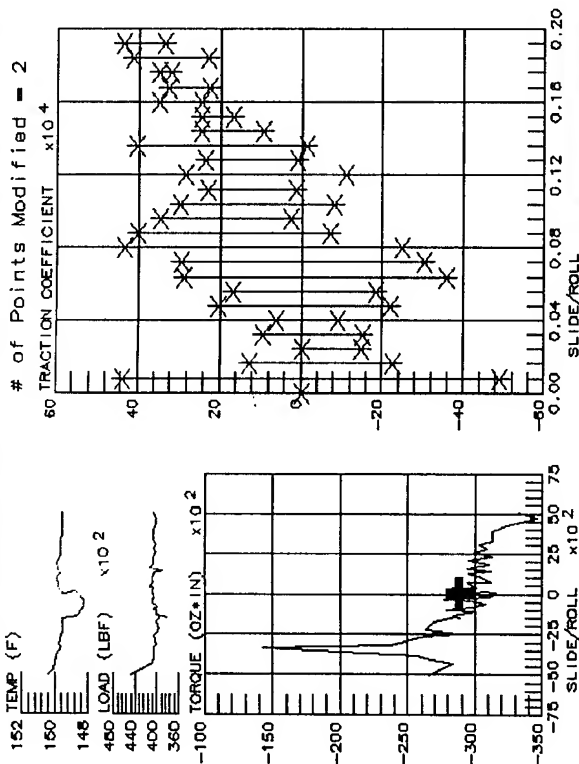
TRACTION DATA

CE 88-177 Demum S-20
150F 6LBF 152RPM #1

FILE: ce1501

#61

of Points Modified = 2

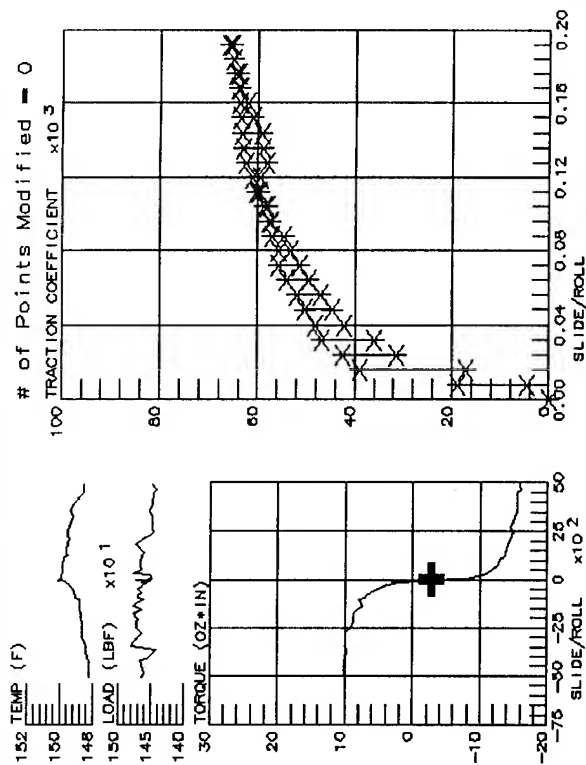


CE 88-177 Demum S-20
150F 16LBF 152RPM #2

FILE: ce1501

#62

of Points Modified = 0

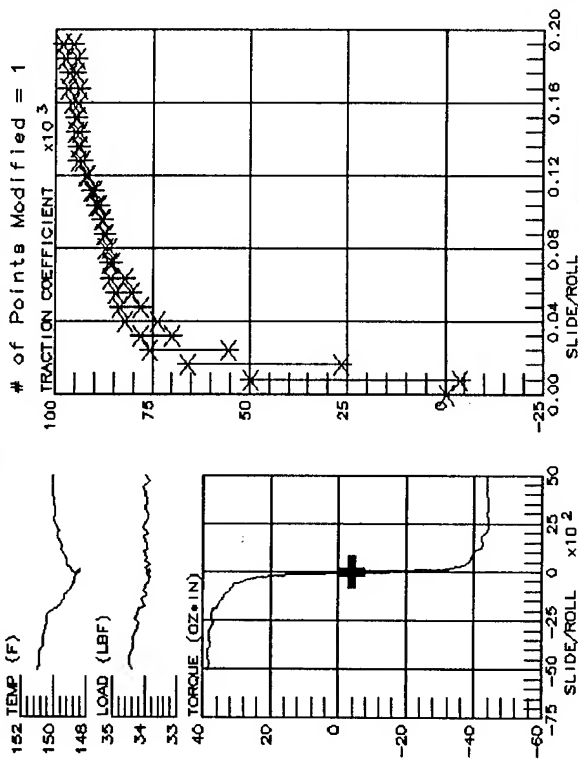


CE 88-177 Demum S-20
150F 34LBF 152RPM #3

FILE: ce1501

#63

of Points Modified = 1

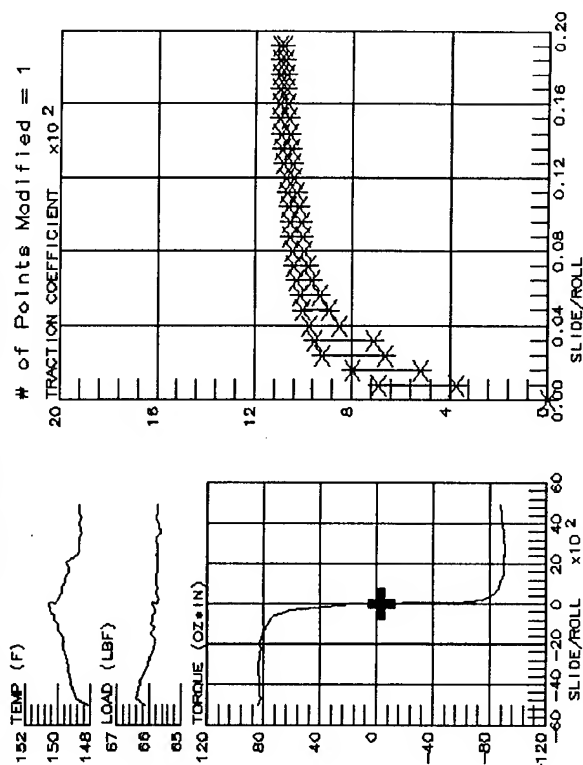


CE 88-177 Demum S-20
150F 67LBF 152RPM #4

FILE: ce1501

#64

of Points Modified = 1



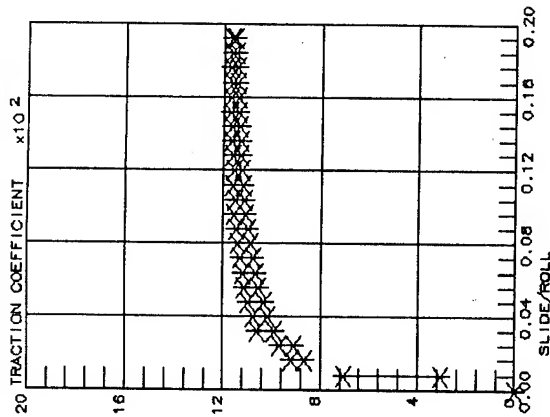
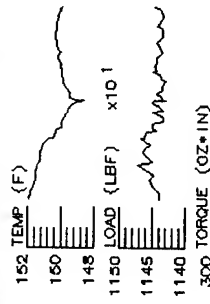
TRACTION DATA

CE 88-177 Demum S-20
150F 115LBF 152RPM #5

FILE: ce1501

#65

of Points Modified = 1

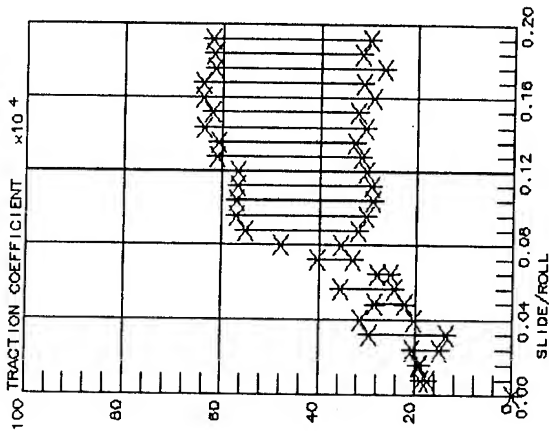
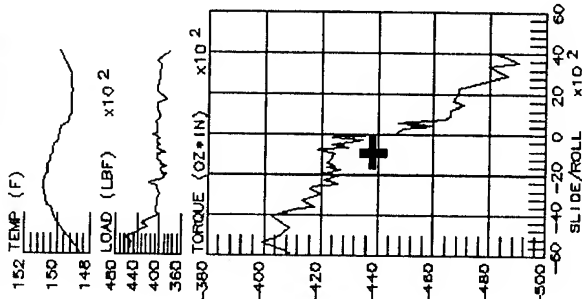


CE 88-177 Demum S-20
150F 5LBF 305RPM #8

FILE: ce1501

#86

of Points Modified = 3

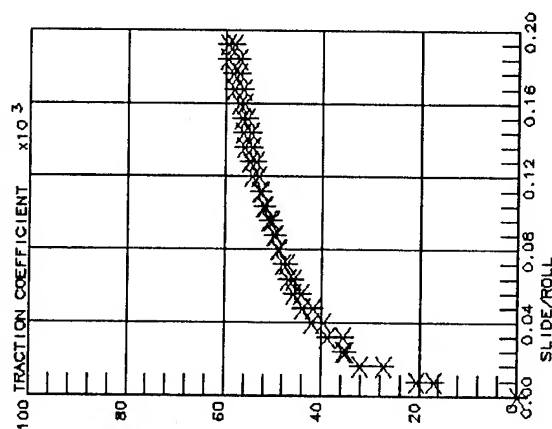
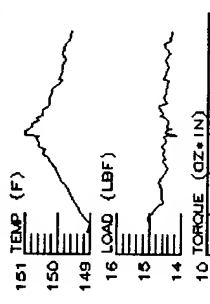


CE 88-177 Demum S-20
150F 15LBF 305RPM #7

FILE: ce1501

#67

of Points Modified = 2

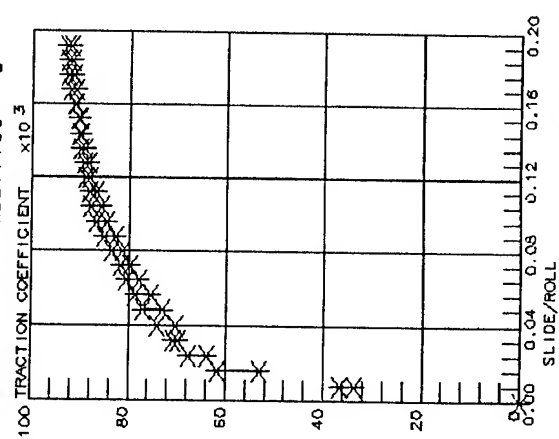
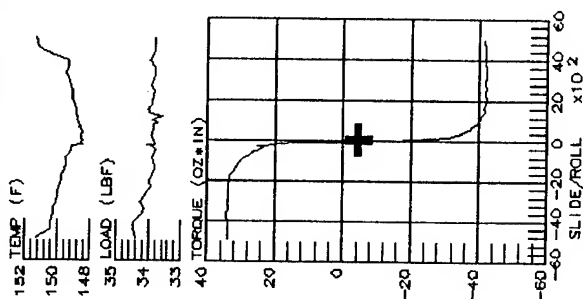


CE 88-177 Demum S-20
150F 34LBF 305RPM #8

FILE: ce1501

#68

of Points Modified = 0



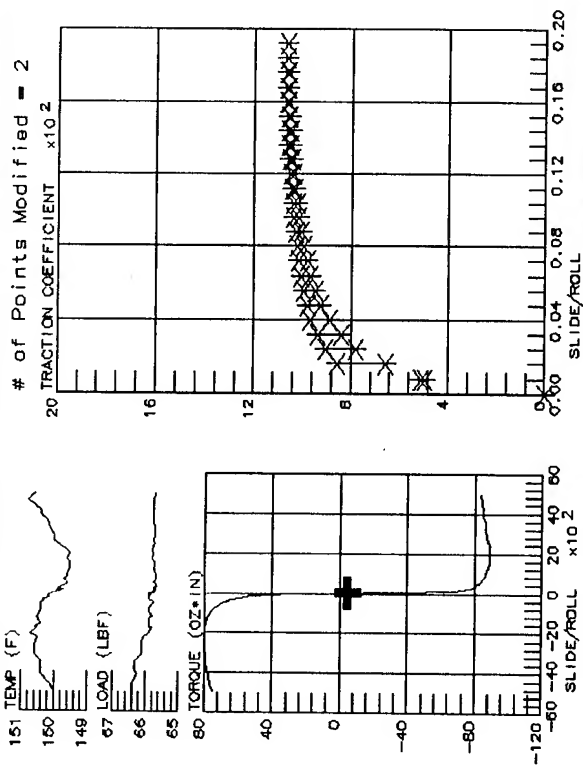
TRACTION DATA

CE 88-177 Demum S-20
150F 67LBF 305RPM #9

FILE: cel501

#69

of Points Modified = 2

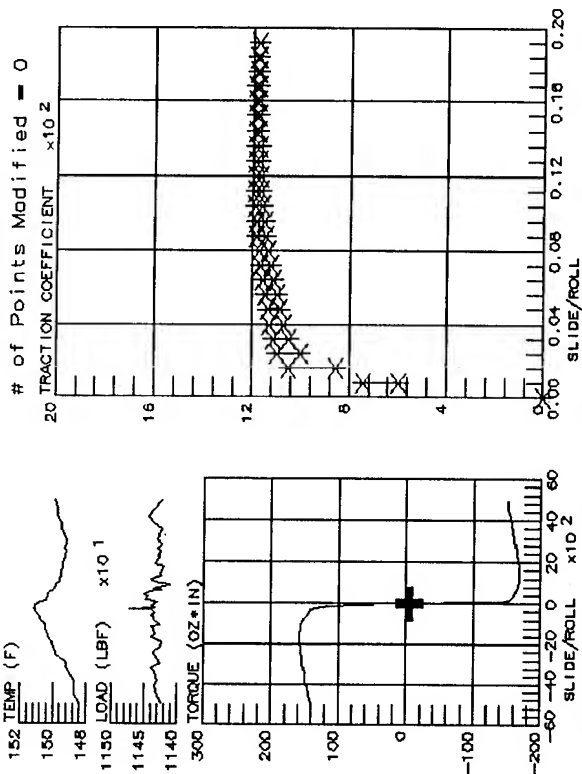


CE 88-177 Demum S-20
150F 115LBF 305RPM #10

FILE: cel501

#70

of Points Modified = 0

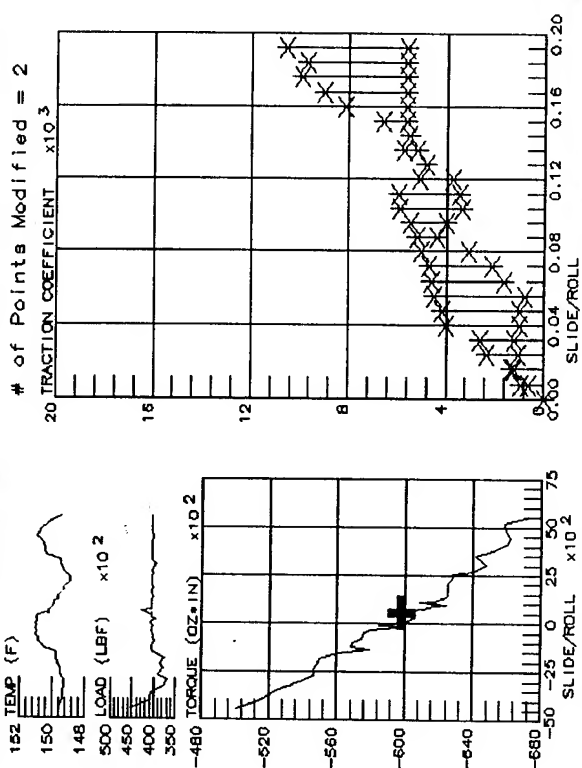


CE 88-177 Demum S-20
150F 5LBF 649RPM #11

FILE: cel501

#71

of Points Modified = 2

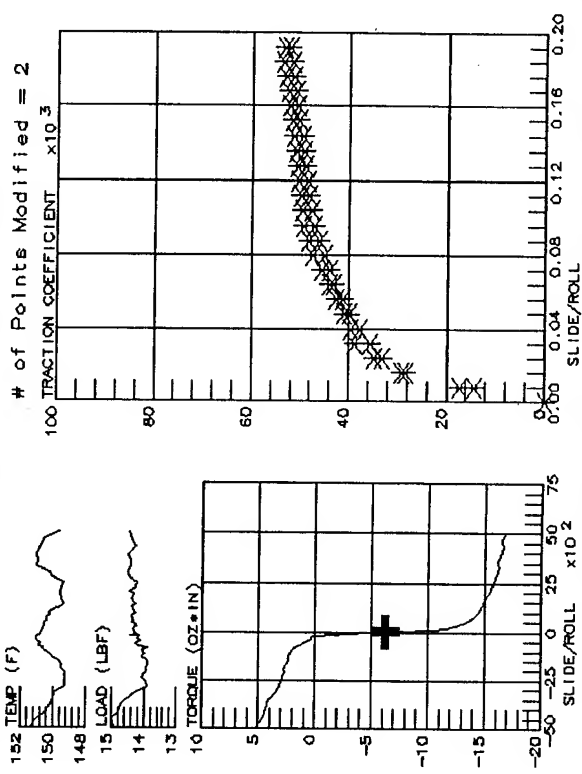


CE 88-177 Demum S-20
150F 15LBF 649RPM #12

FILE: cel501

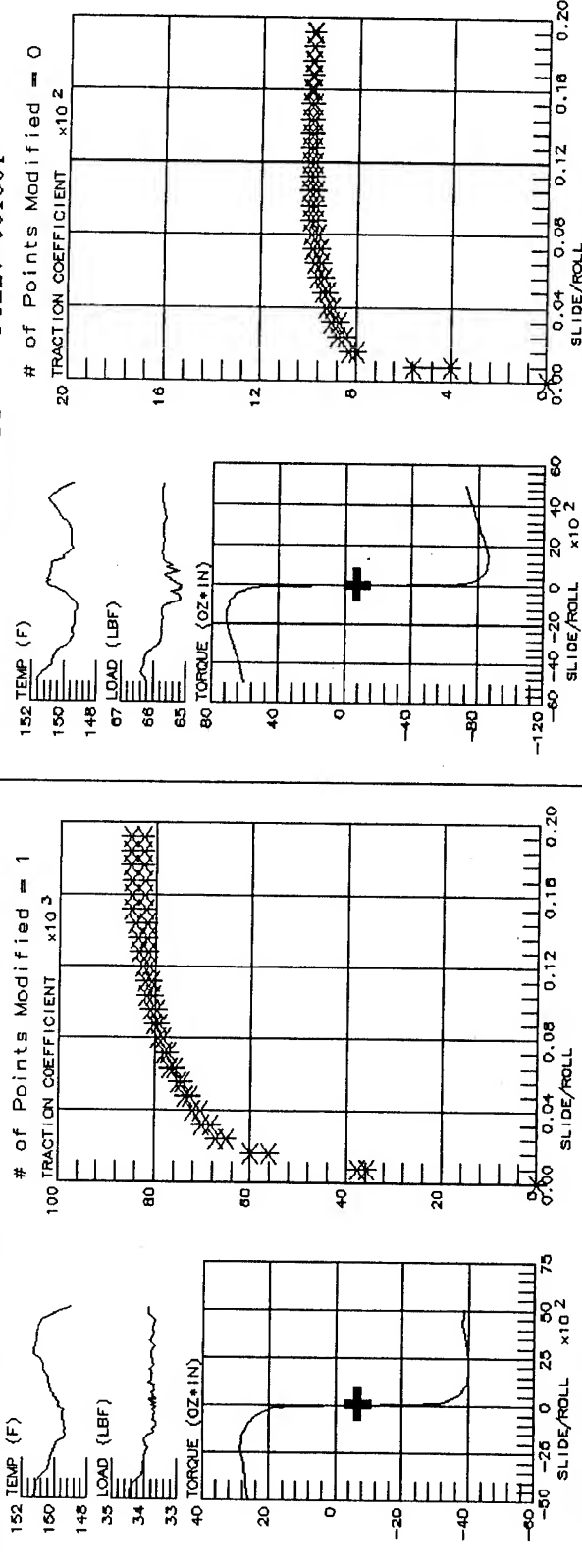
#72

of Points Modified = 2

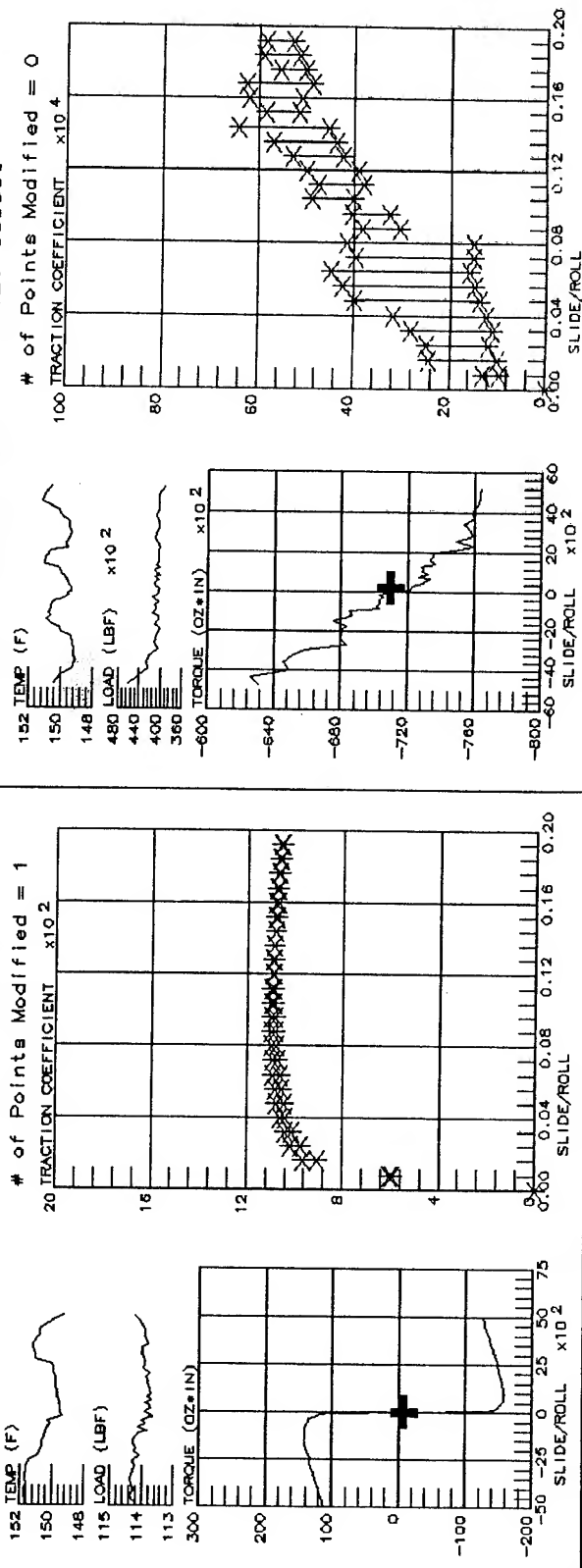


TRACTION DATA

CE 88-177 Demum S-20 150F 34LBF 649RPM #13 FILE: ce1501 #73



CE 88-177 Demum S-20 150F 51LBF 1260RPM #18 FILE: ce1501 #76



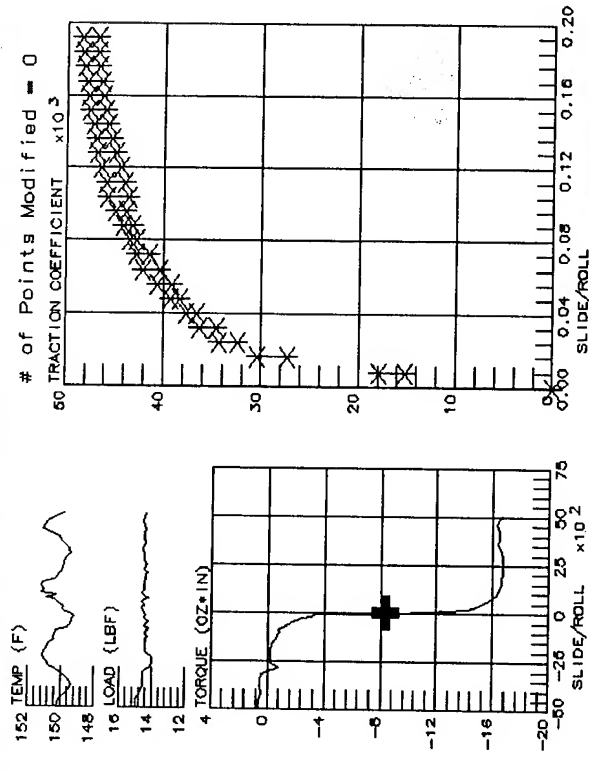
TRACTION DATA

CE 88-177 Demum S-20
150F 15LBF 1260RPM #17

FILE: ce1501

#77

of Points Modified = 0

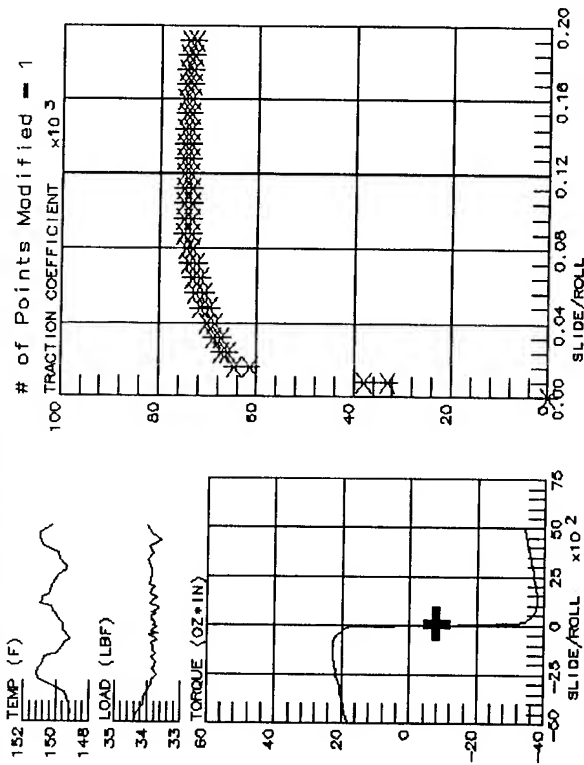


CE 88-177 Demum S-20
150F 34LBF 1260RPM #18

FILE: ce1501

#78

of Points Modified = 1

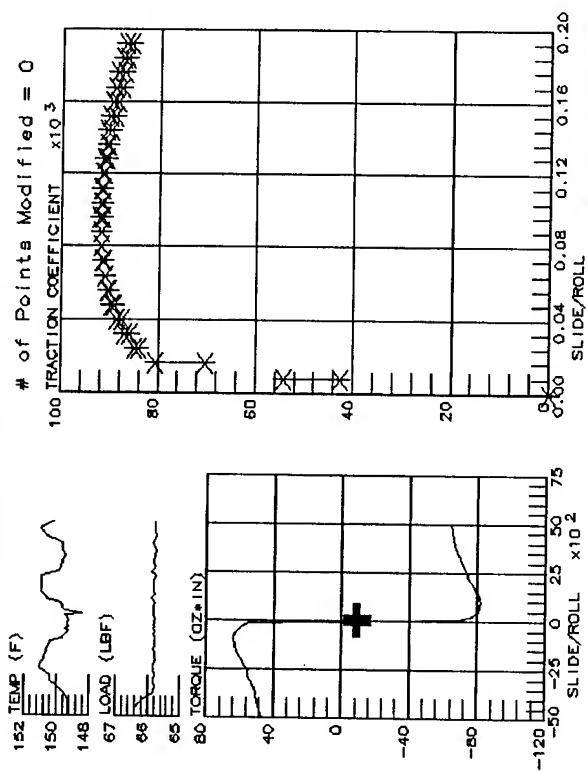


CE 88-177 Demum S-20
150F 87LBF 1260RPM #19

FILE: ce1501

#79

of Points Modified = 0

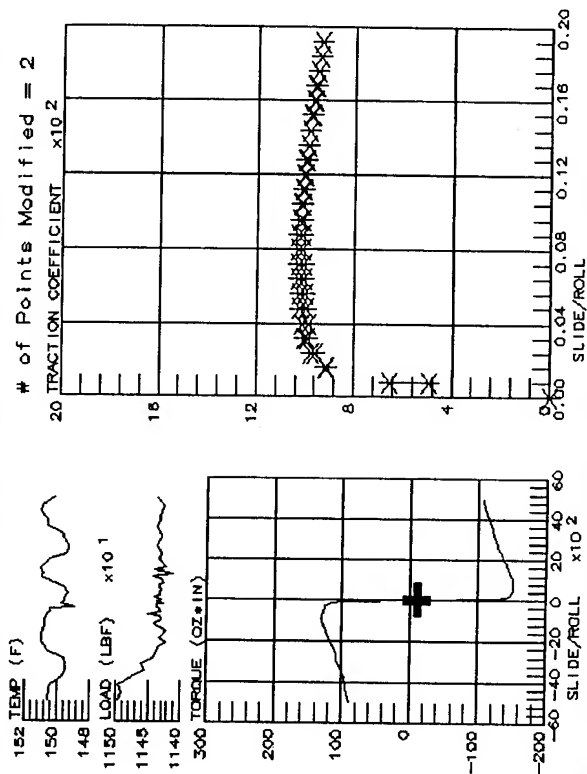


CE 88-177 Demum S-20
150F 115LBF 1260RPM #20

FILE: ce1501

#80

of Points Modified = 2



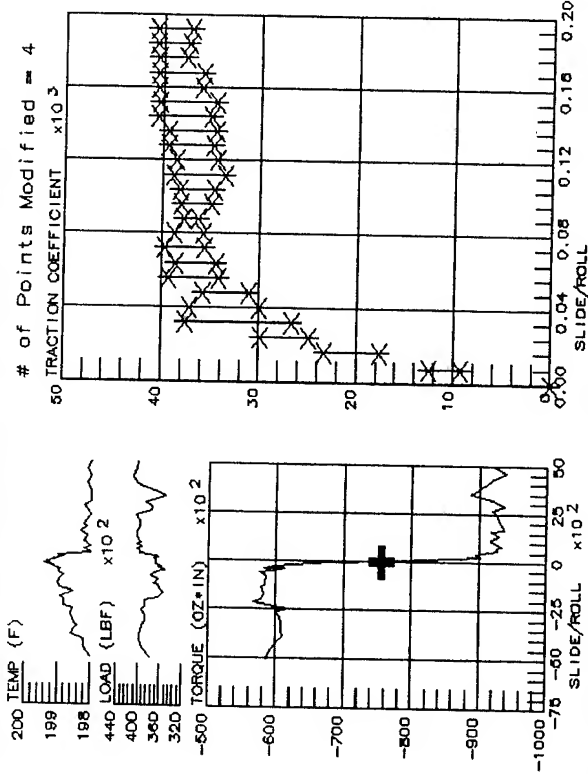
TRACTION DATA

CE 88-177 Demum S-20
200F 5LBF 2559RPM #1

FILE: ce200h

#81

of Points Modified = 4

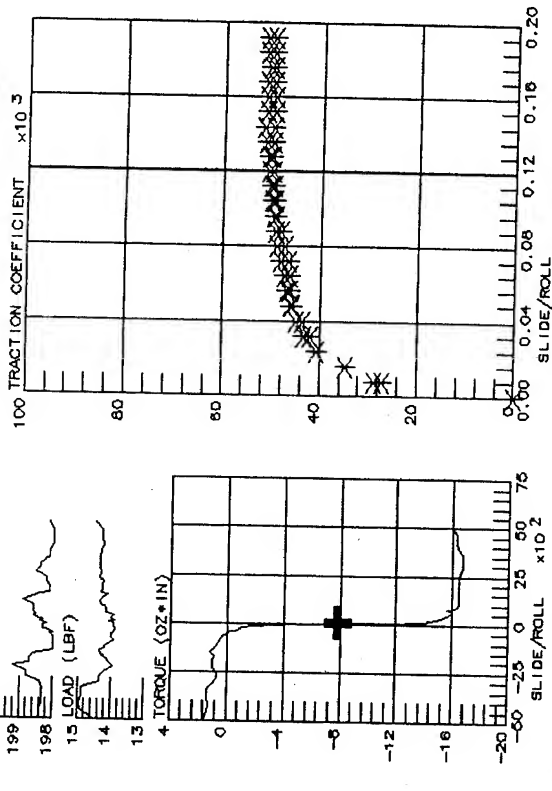


CE 88-177 Demum S-20
200F 15LBF 2559RPM #2

FILE: ce200h

#82

of Points Modified = 2

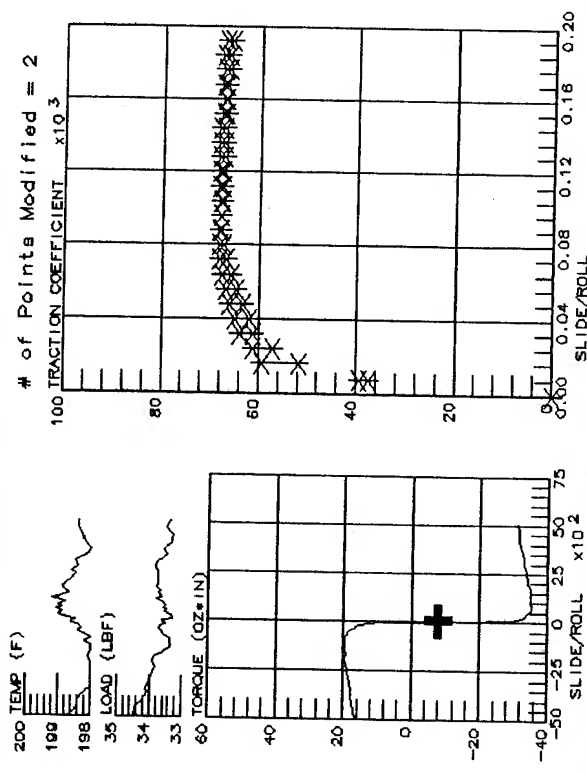


CE 88-177 Demum S-20
200F 34LBF 2559RPM #3

FILE: ce200h

#83

of Points Modified = 2

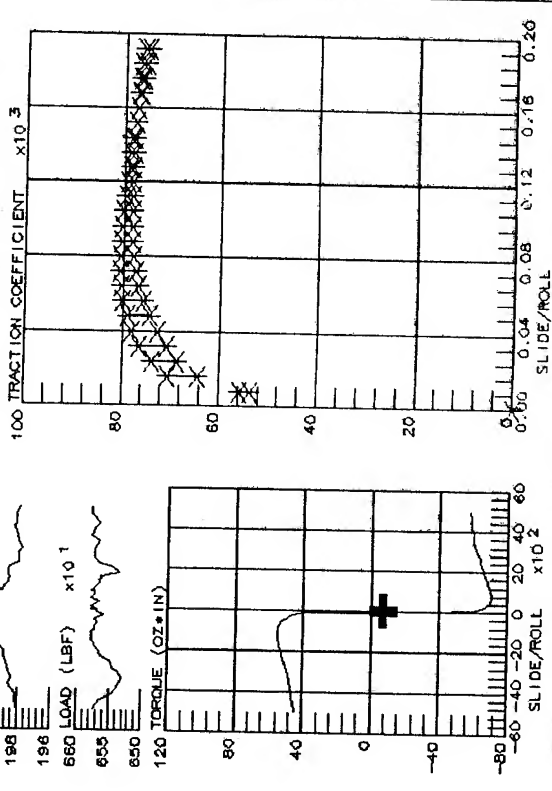


CE 88-177 Demum S-20
200F 67LBF 2559RPM #4

FILE: ce200h

#84

of Points Modified = 0



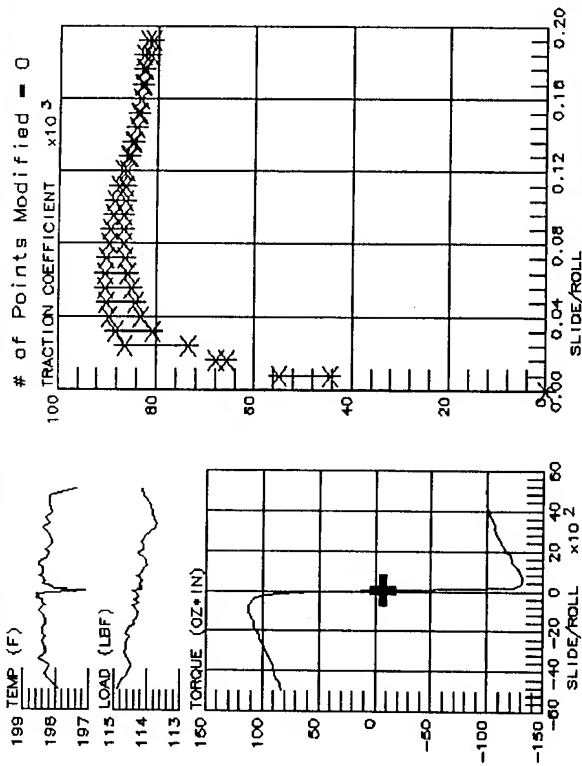
TRACTION DATA

CE 88-177 Demum S-20
200F 115LBF 2659RPM #5

FILE: ce200h

#85

of Points Modified = 0

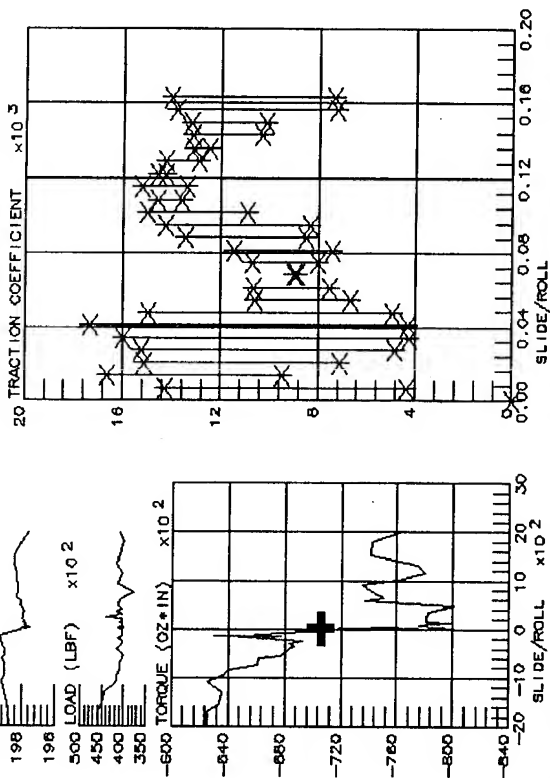


CE 88-177 Demum S-20
200F 51LBF 5080RPM #6

FILE: ce200h

#86

of Points Modified = 0

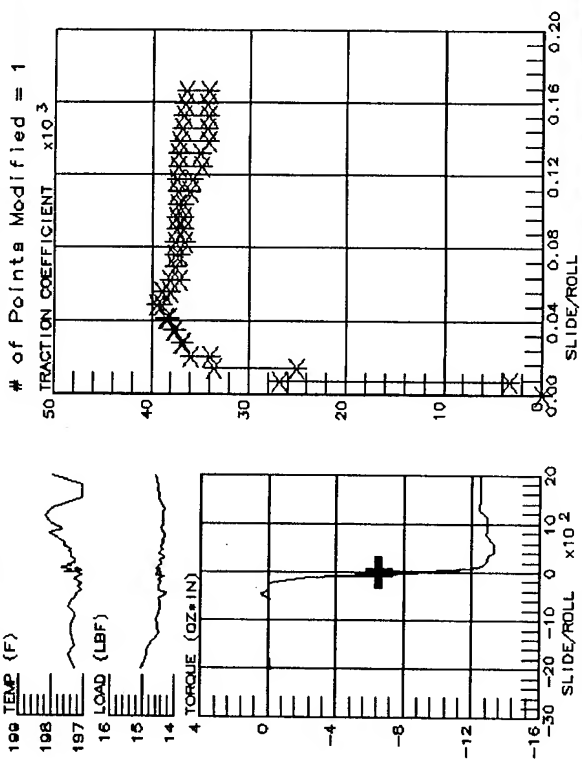


CE 88-177 Demum S-20
200F 15LBF 5080RPM #7

FILE: ce200h

#87

of Points Modified = 1

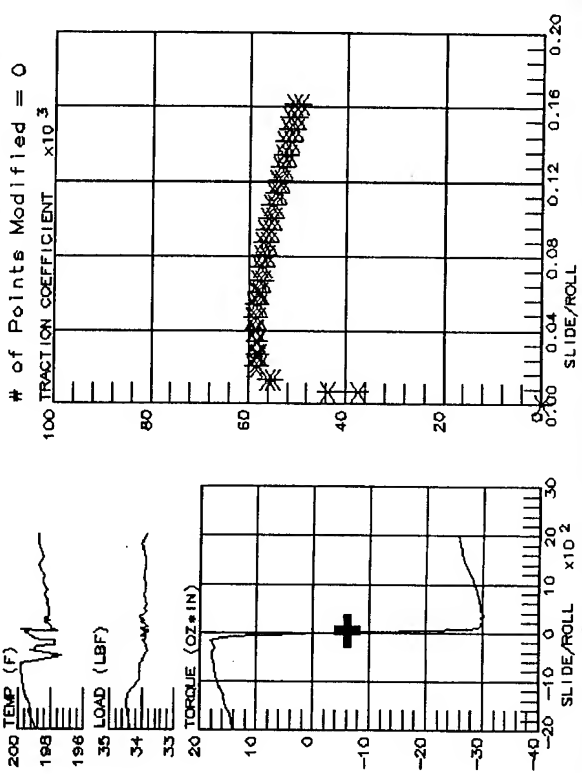


CE 88-177 Demum S-20
200F 34LBF 5080RPM #8

FILE: ce200h

#88

of Points Modified = 0



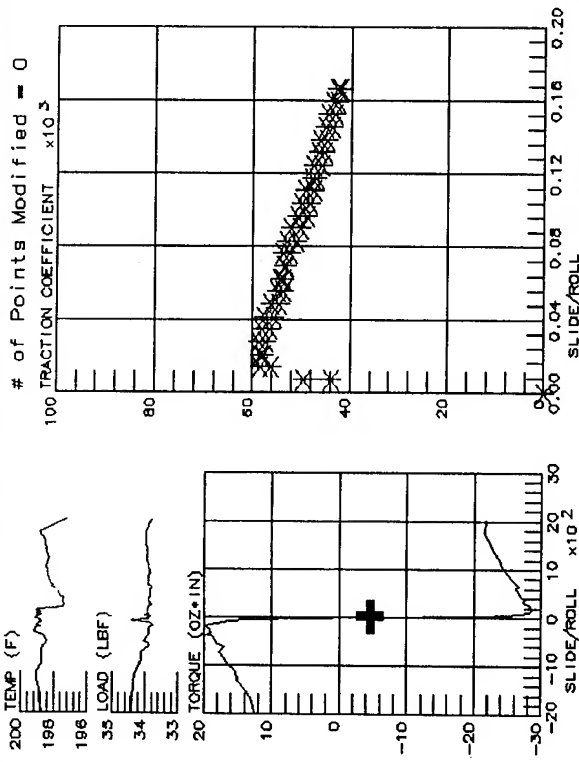
TRACTION DATA

CE 88-177 Demum S-20
200F 34LBF 7639RPM #13

FILE: ce200h

#93

of Points Modified = 0

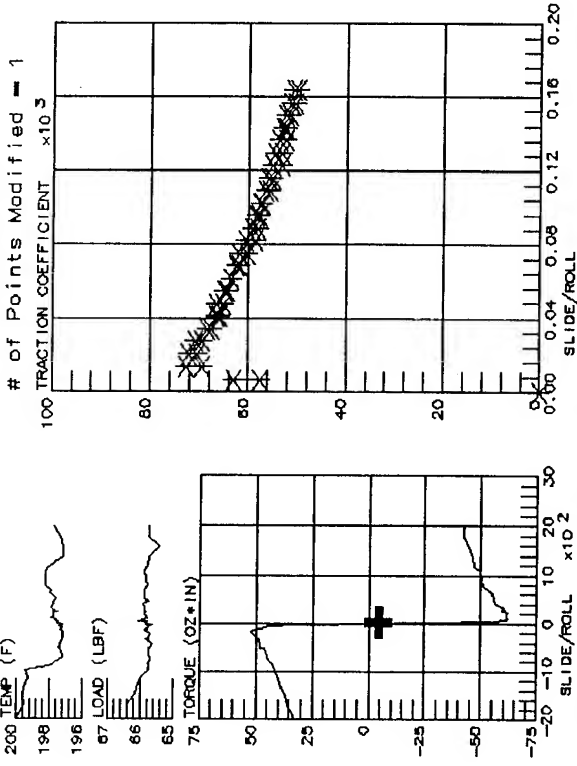


CE 88-177 Demum S-20
200F 87LBF 7639RPM #14

FILE: ce200h

#94

of Points Modified = 1

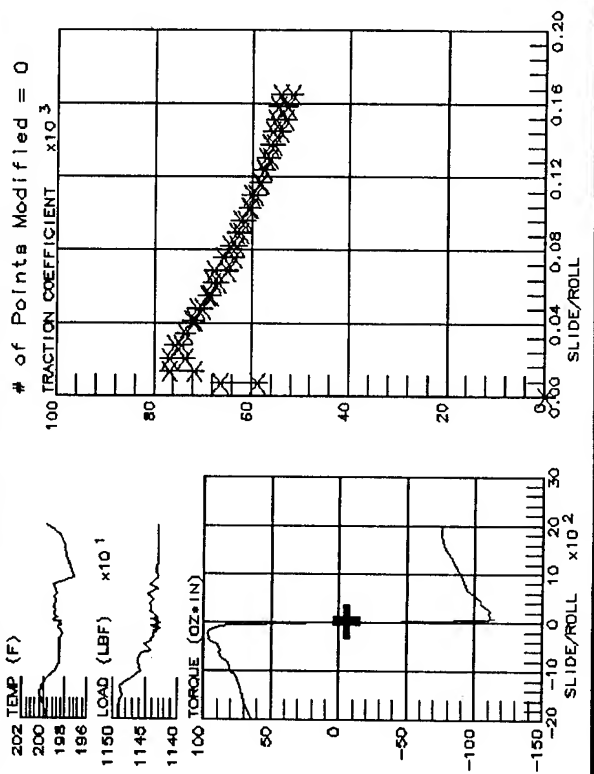


CE 88-177 Demum S-20
200F 115LBF 7639RPM #15

FILE: ce200h

#95

of Points Modified = 0

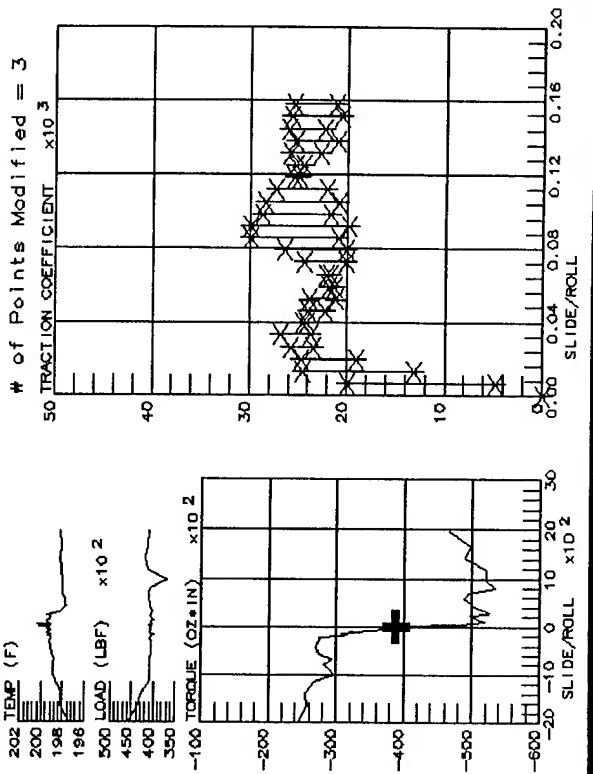


CE 88-177 Demum S-20
200F 5LBF 10198RPM #16

FILE: ce200h

#96

of Points Modified = 3



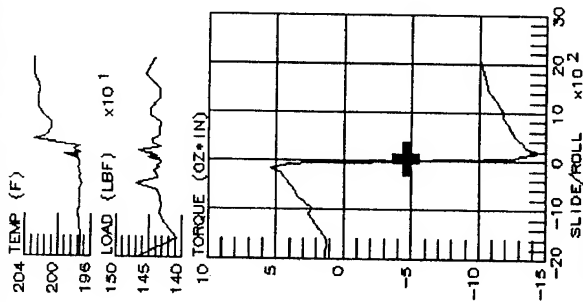
TRACTION DATA

CE 88-177 Demum S-20
200F 15LBF 10198RPM #17

FILE: ce200h

#97

of Points Modified = 3
TRACTION COEFFICIENT $\times 10^{-3}$

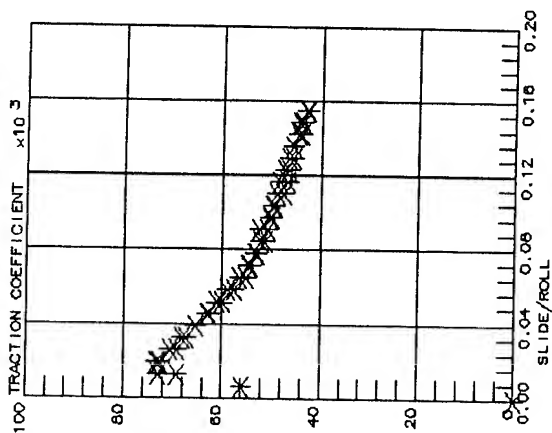


#98

CE 88-177 Demum S-20
200F 34LBF 10198RPM #18

FILE: ce200h

of Points Modified = 0

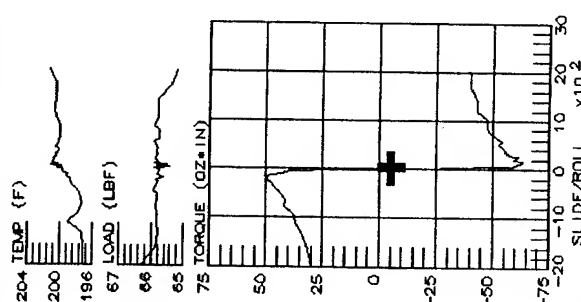


CE 88-177 Demum S-20
200F 67LBF 10198RPM #19

FILE: ce200h

#99

of Points Modified = 0
TRACTION COEFFICIENT $\times 10^{-3}$

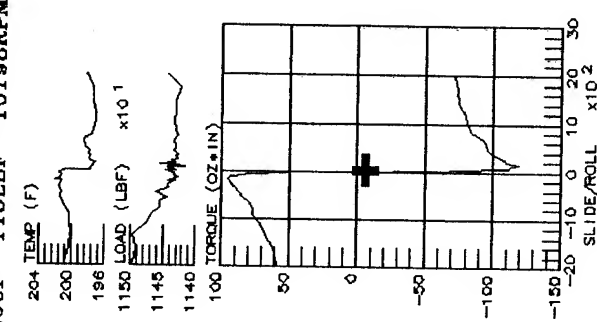


CE 88-177 Demum S-20
200F 115LBF 10198RPM #20

FILE: ce200h

#100

of Points Modified = 1
TRACTION COEFFICIENT $\times 10^{-3}$



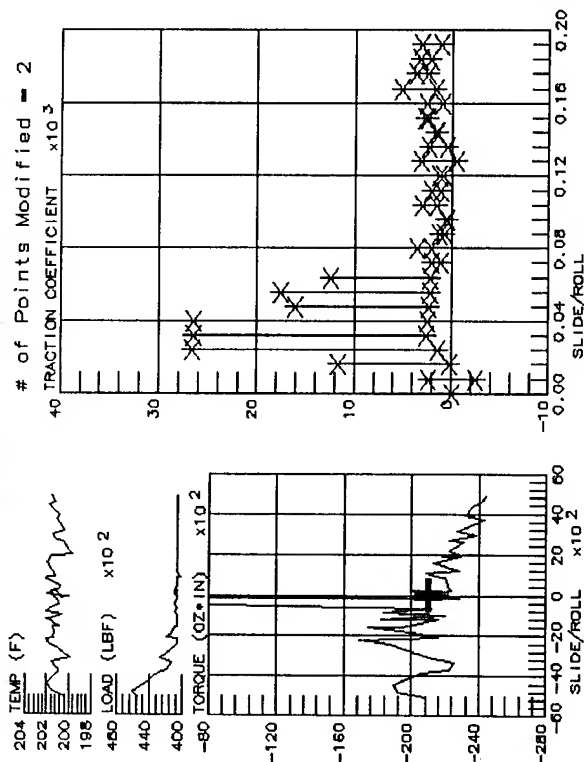
TRACTION DATA

CE 88-177 Datum S-20
200F 6LBF 152RPM #1

FILE: ce2001

#101

of Points Modified = 2

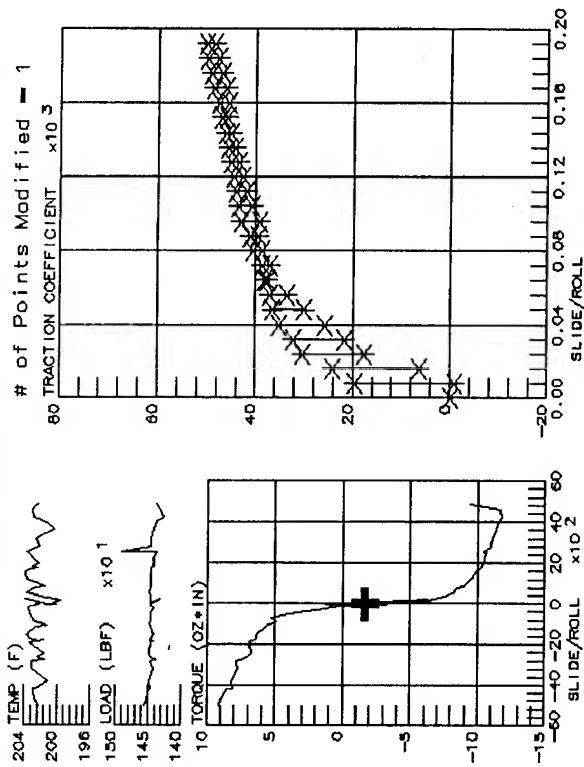


CE 88-177 Datum S-20
200F 15LBF 152RPM #2

FILE: ce2001

#102

of Points Modified = 1

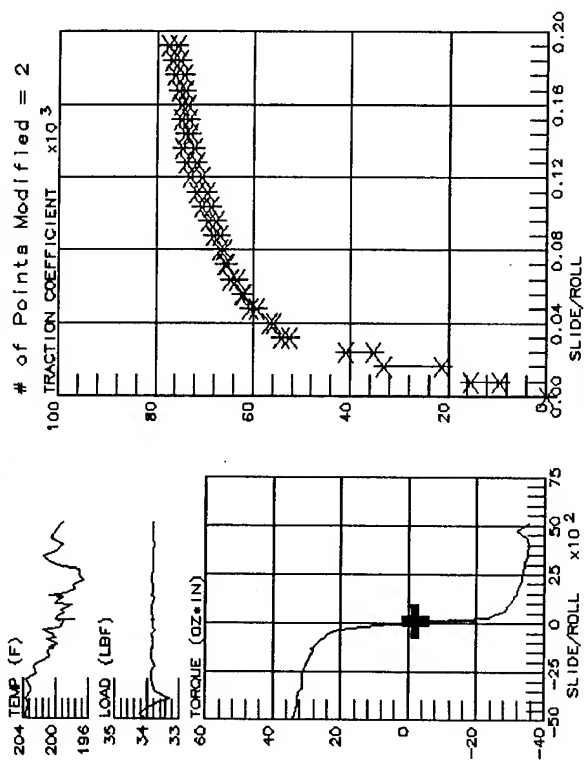


CE 88-177 Datum S-20
200F 34LBF 152RPM #3

FILE: ce2001

#103

of Points Modified = 2

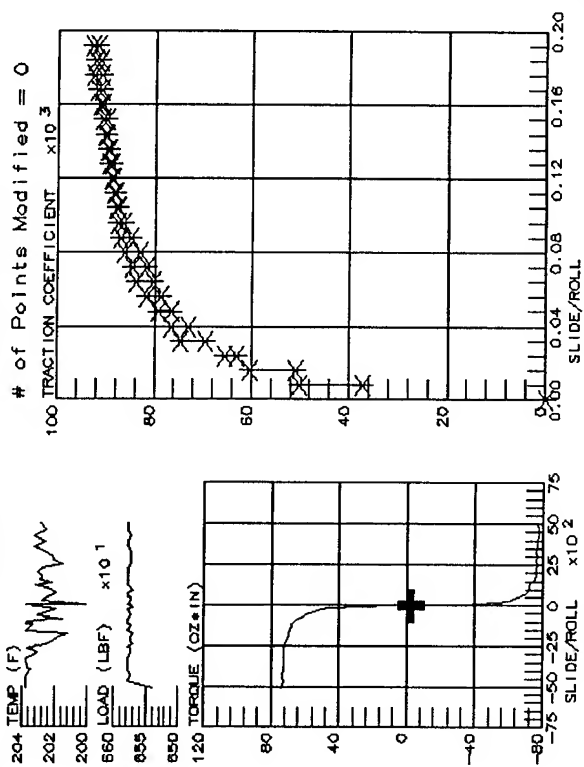


CE 88-177 Datum S-20
200F 67LBF 152RPM #4

FILE: ce2001

#104

of Points Modified = 0



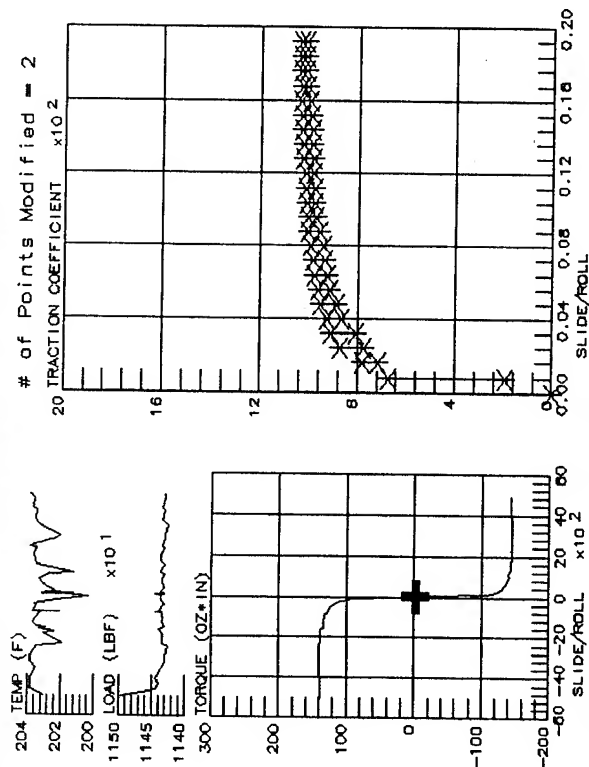
TRACTION DATA

CE 88-177 Datum S-20
200F 115LBF 162RPM #5

FILE: ce2001

#105

of Points Modified = 2

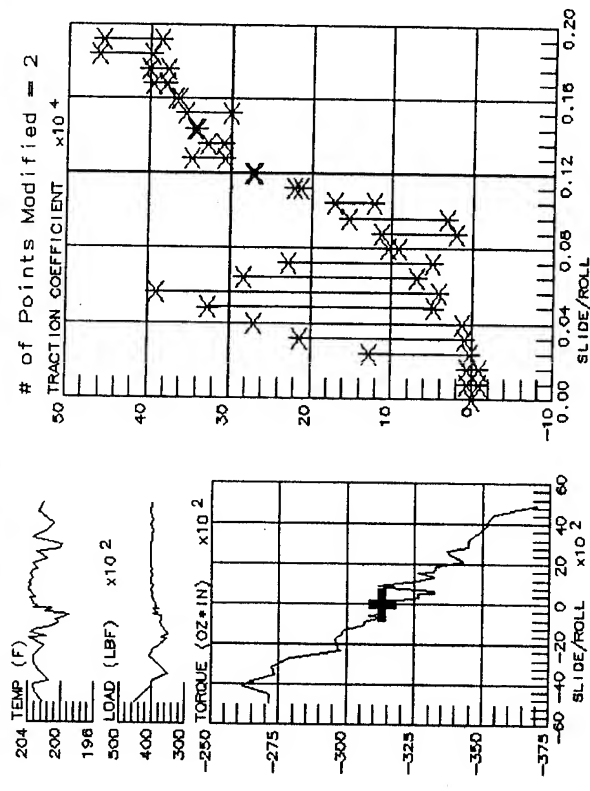


CE 88-177 Datum S-20
200F 5LBF 305RPM #8

FILE: ce2001

#108

of Points Modified = 2

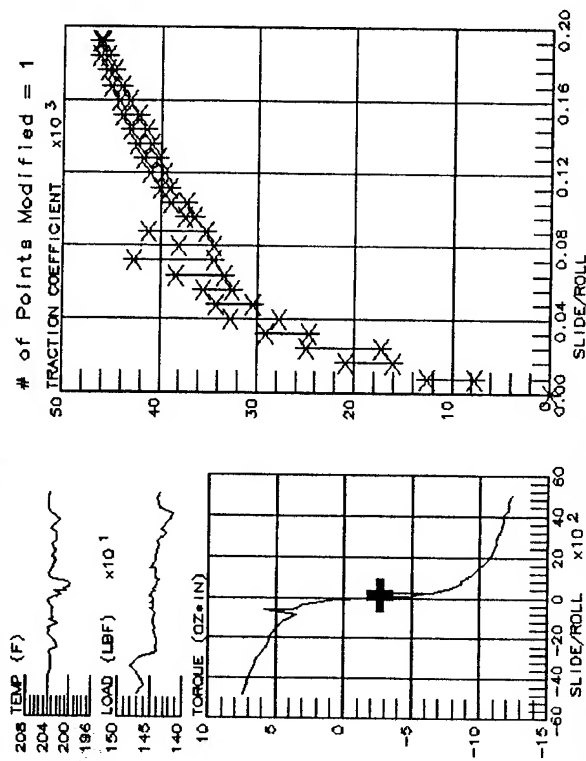


CE 88-177 Datum S-20
200F 15LBF 303RPM #7

FILE: ce2001

#107

of Points Modified = 1

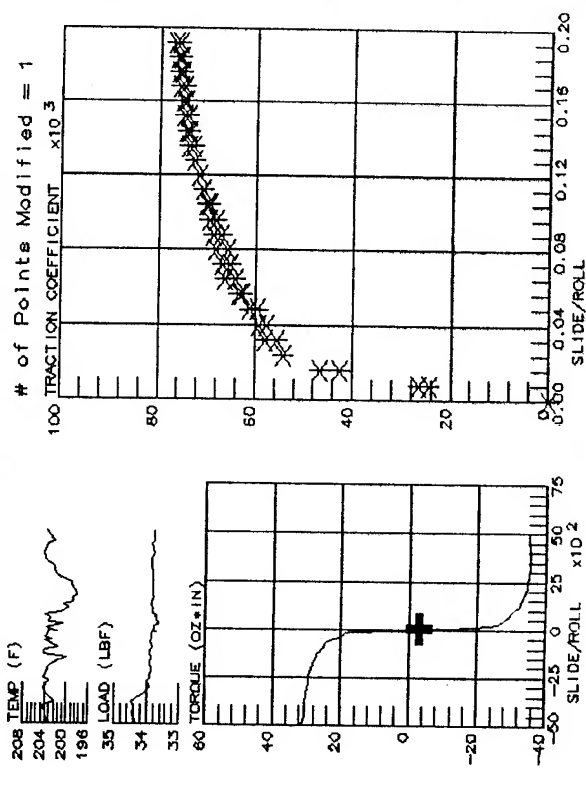


CE 88-177 Datum S-20
200F 34LBF 305RPM #8

FILE: ce2001

#108

of Points Modified = 1



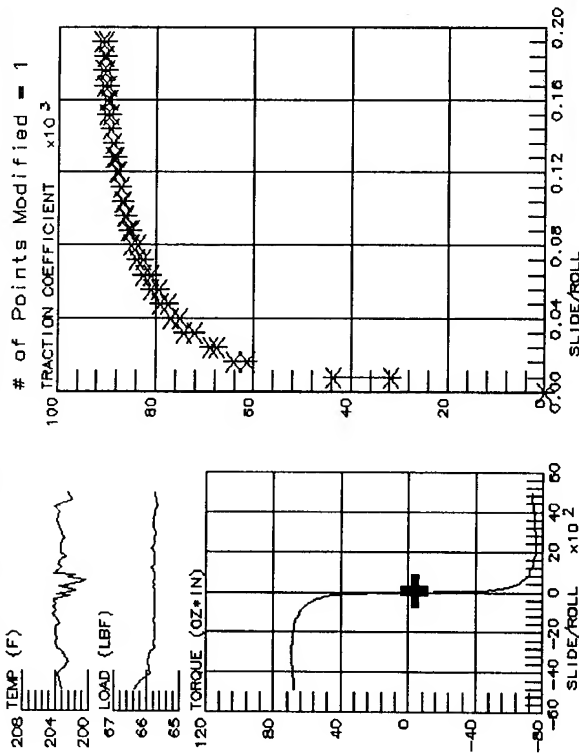
TRACTION DATA

CE 88-177 Demum S-20
200F 67LBF 305RPM #9

FILE: ce2001

#109

of Points Modified = 1

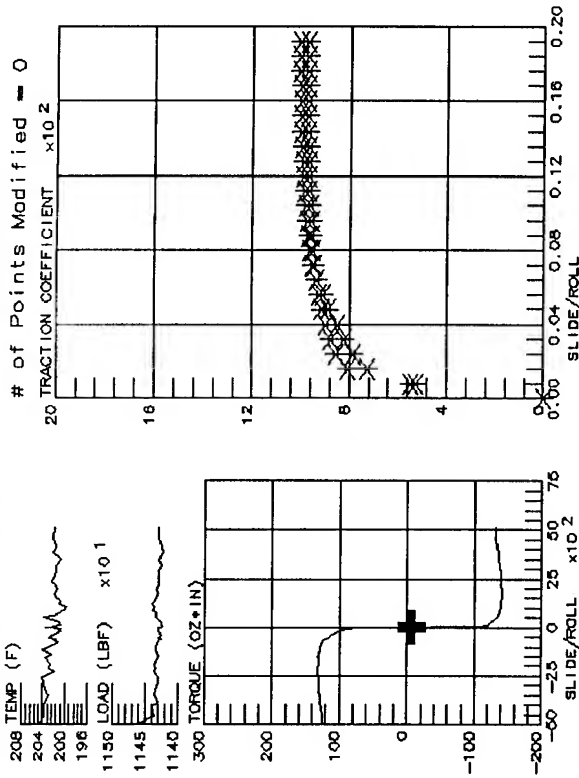


CE 88-177 Demum S-20
200F 115LBF 305RPM #10

FILE: ce2001

#110

of Points Modified = 0

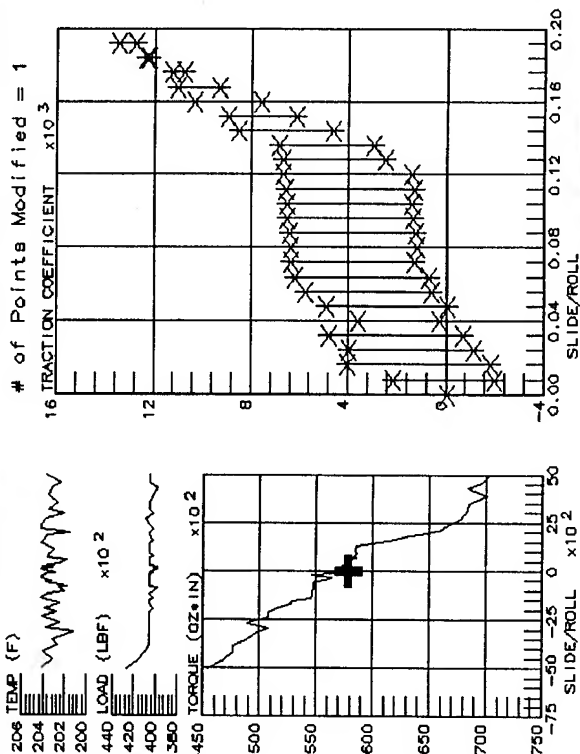


CE 88-177 Demum S-20
200F 5LBF 649RPM #11

FILE: ce2001

#111

of Points Modified = 1

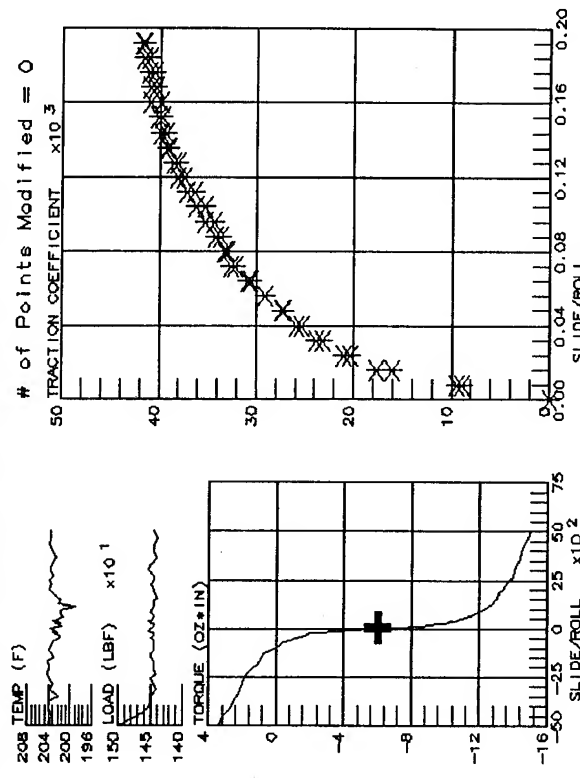


CE 88-177 Demum S-20
200F 15LBF 649RPM #12

FILE: ce2001

#112

of Points Modified = 0



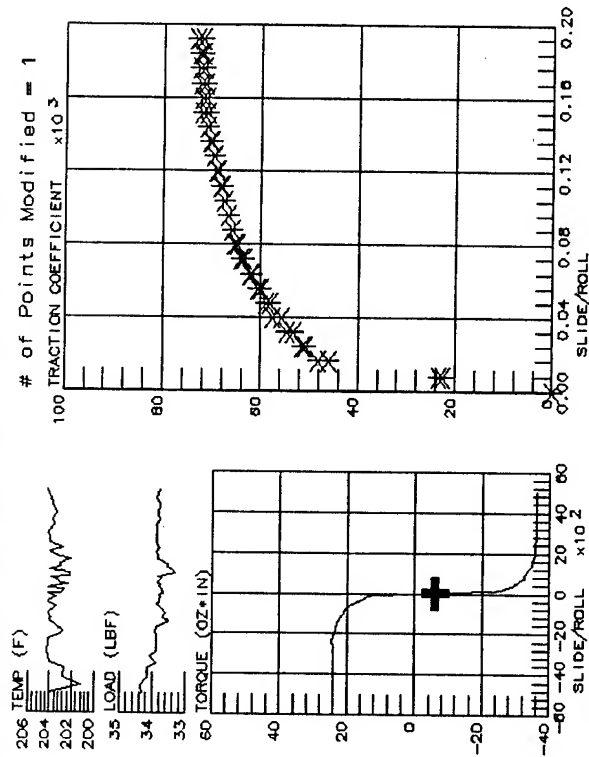
TRACTION DATA

CE 88-177 Datum S-20
200F 34LBF 649RPM #13

FILE: ce2001

#113

of Points Modified = 1

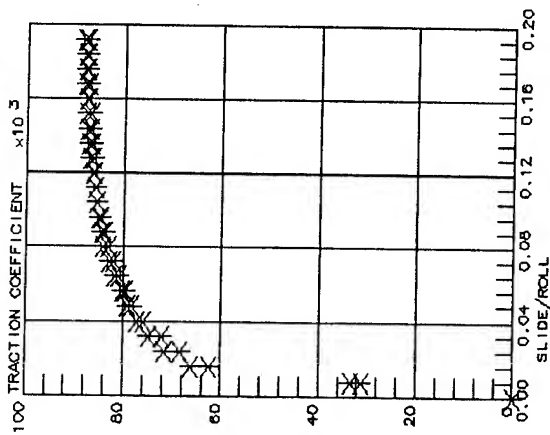


CE 88-177 Datum S-20
200F 67LBF 649RPM #14

FILE: ce2001

#114

of Points Modified = 0

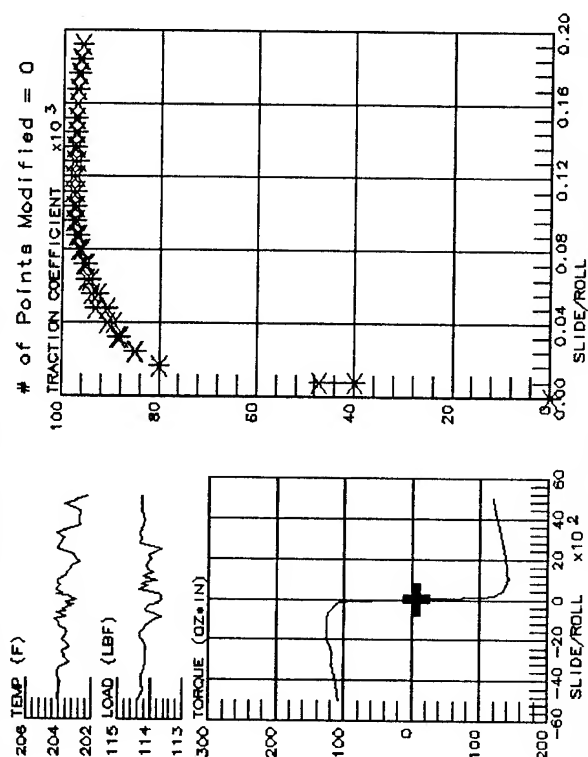


CE 88-177 Datum S-20
200F 115LBF 649RPM #15

FILE: ce2001

#115

of Points Modified = 0

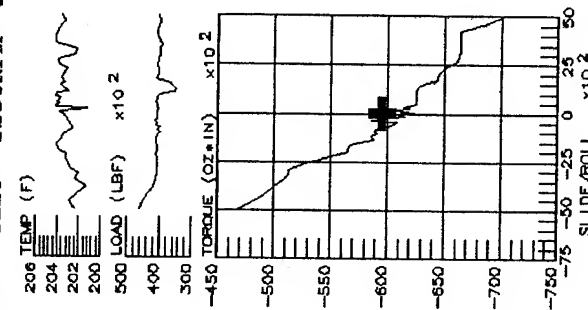
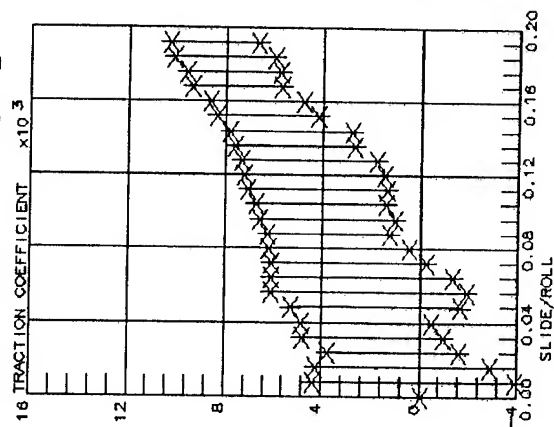


CE 88-177 Datum S-20
200F 51LBF 1260RPM #16

FILE: ce2001

#116

of Points Modified = 2



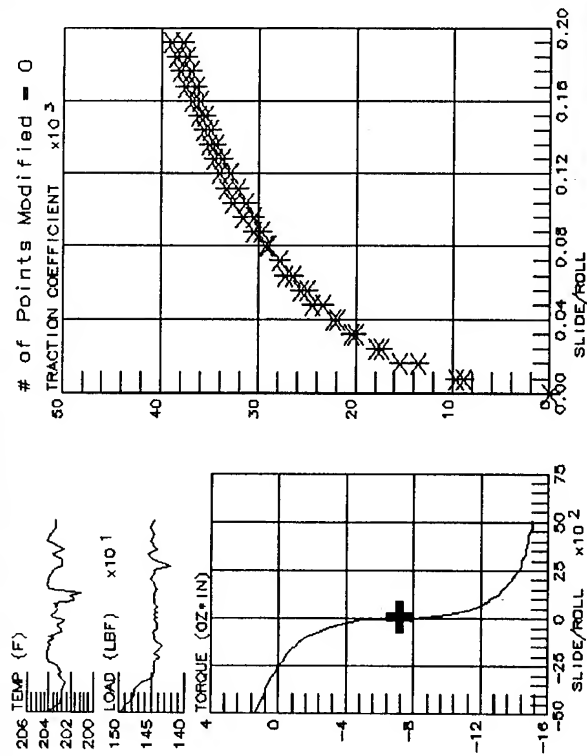
TRACTION DATA

CE 88-177 Demum S-20
200F 15LBF 1260RPM #17

FILE: ce2001

#117

of Points Modified = 0

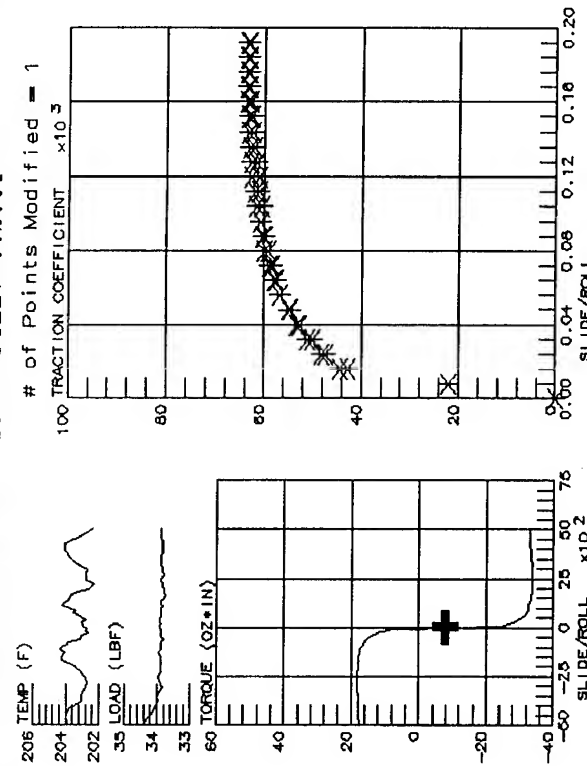


CE 88-177 Demum S-20
200F 34LBF 1260RPM #18

FILE: ce2001

#118

of Points Modified = 1

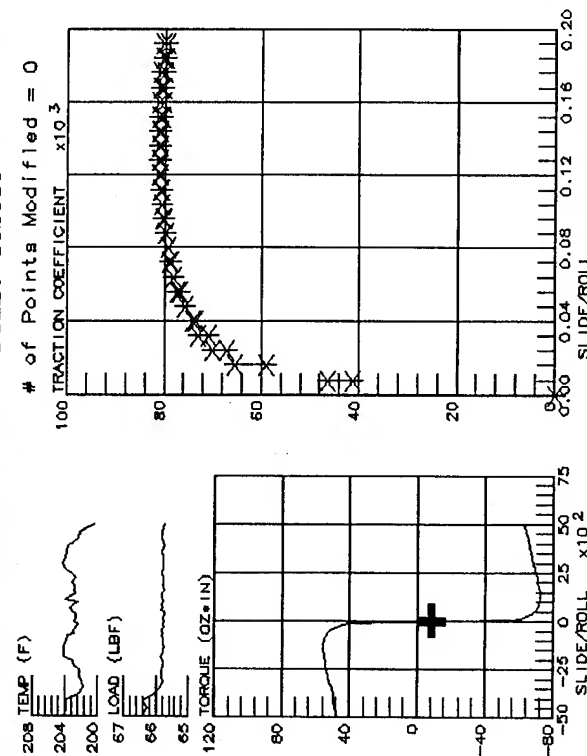


CE 88-177 Demum S-20
200F 67LBF 1260RPM #19

FILE: ce2001

#119

of Points Modified = 0

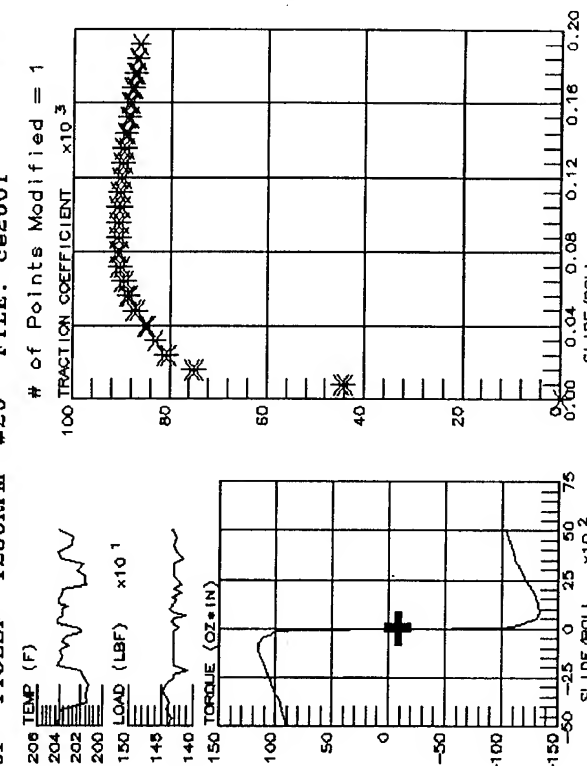


CE 88-177 Demum S-20
200F 115LBF 1260RPM #20

FILE: ce2001

#120

of Points Modified = 1



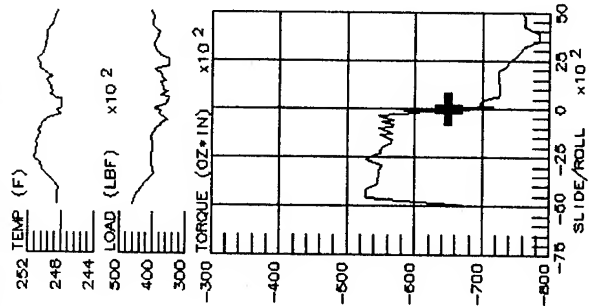
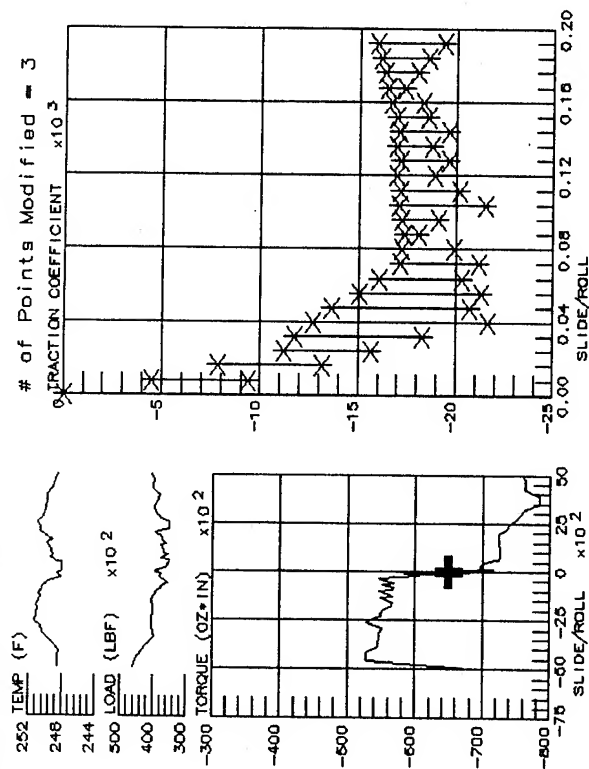
TRACTION DATA

CE 88-177 Demum S-20
250F 5LBF 2559RPM #1

FILE: ce250h

#121

of Points Modified = 3

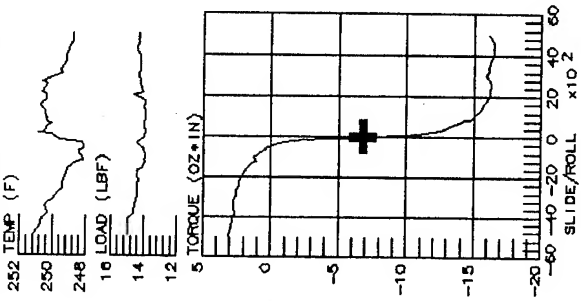
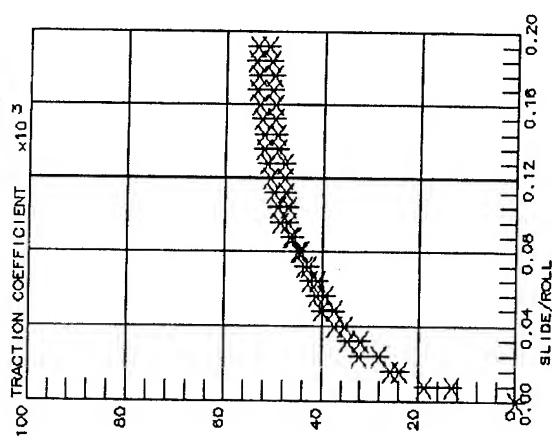


CE 88-177 Demum S-20
250F 15LBF 2559RPM #2

FILE: ce250h

#122

of Points Modified = 0

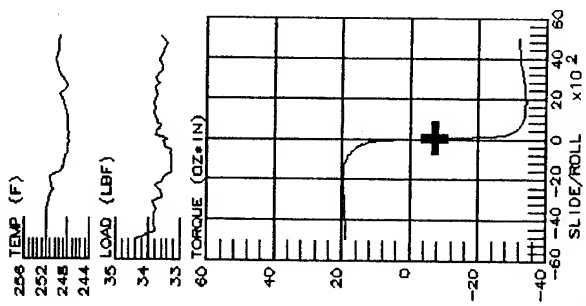
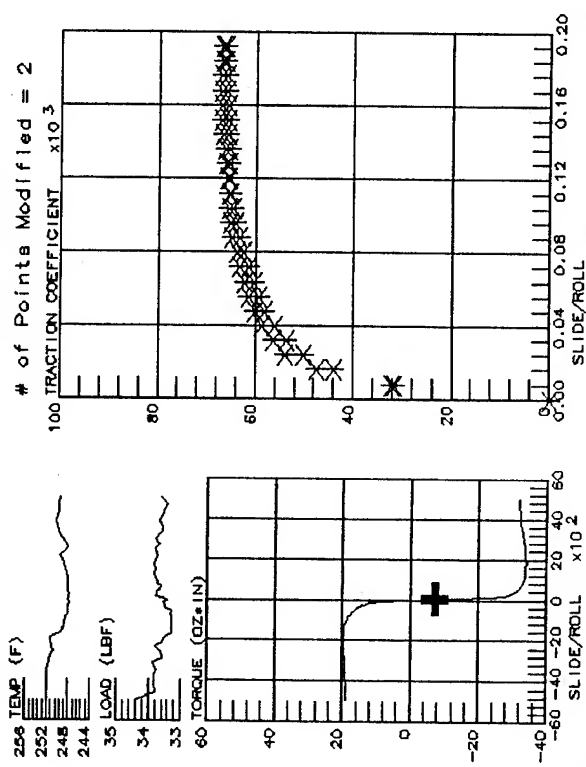


CE 88-177 Demum S-20
250F 34LBF 2559RPM #3

FILE: ce250h

#123

of Points Modified = 2

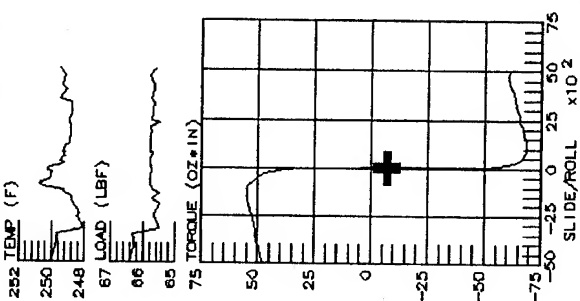
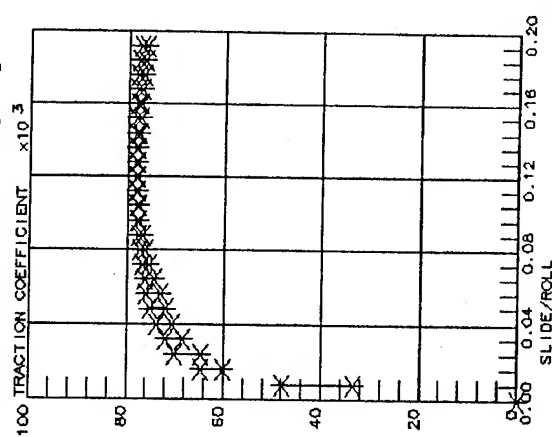


CE 88-177 Demum S-20
250F 67LBF 2559RPM #4

FILE: ce250h

#124

of Points Modified = 0



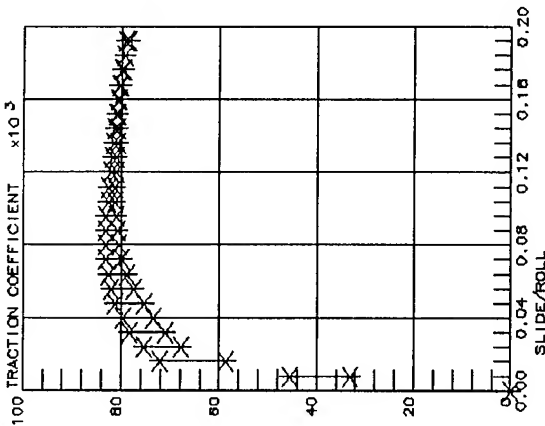
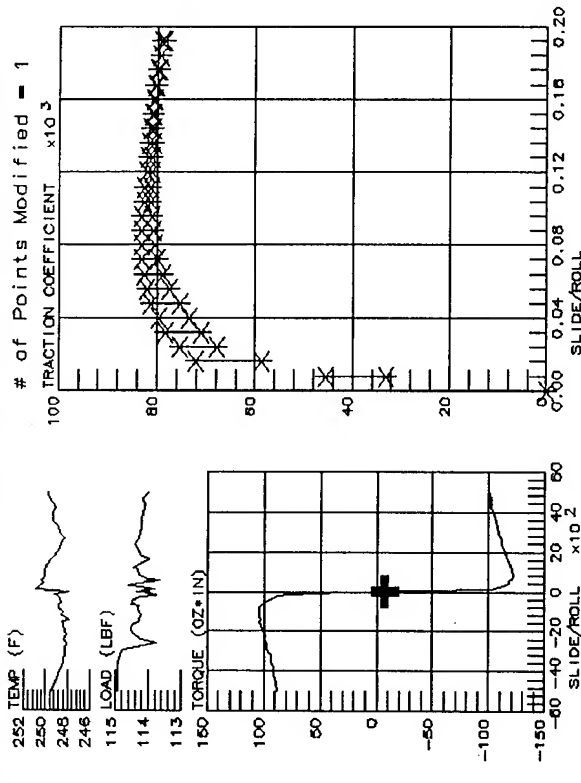
TRACTION DATA

CE 88-177 Demum S-20
250F 115LBF 2659RPM #5

FILE: ce250h

#125

of Points Modified = 1

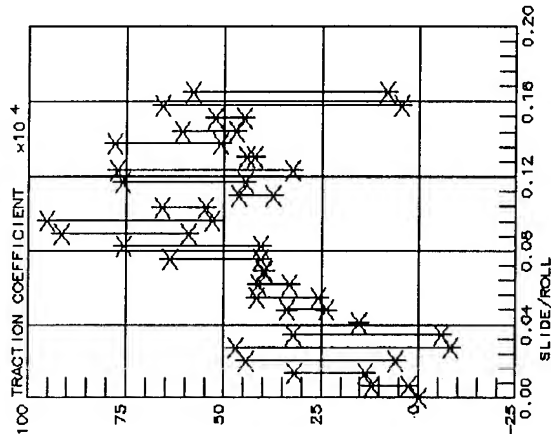
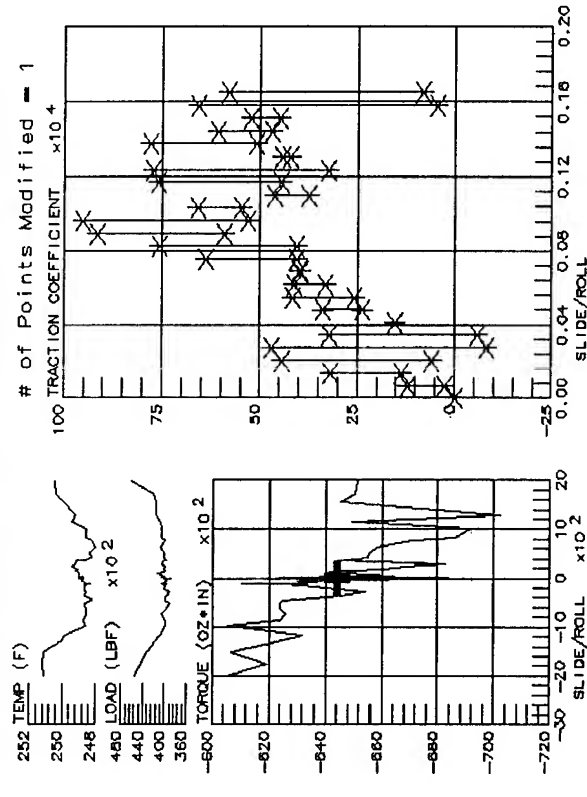


CE 88-177 Demum S-20
250F 51LBF 5080RPM #6

FILE: ce250h

#126

of Points Modified = 1

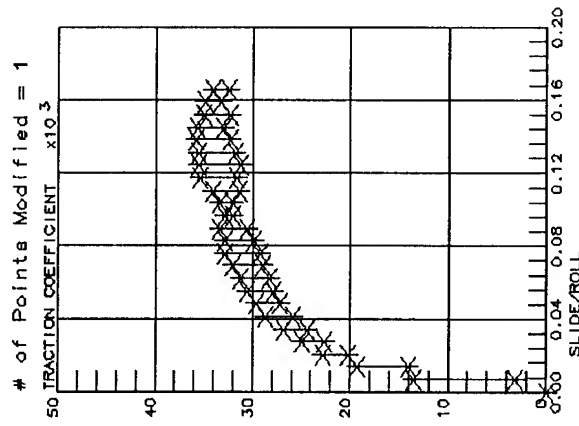
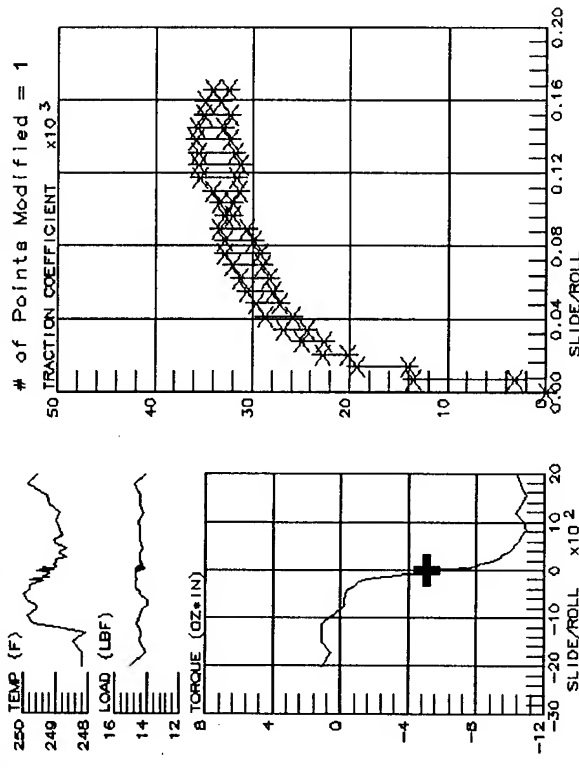


CE 88-177 Demum S-20
250F 15LBF 5080RPM #7

FILE: ce250h

#127

of Points Modified = 1

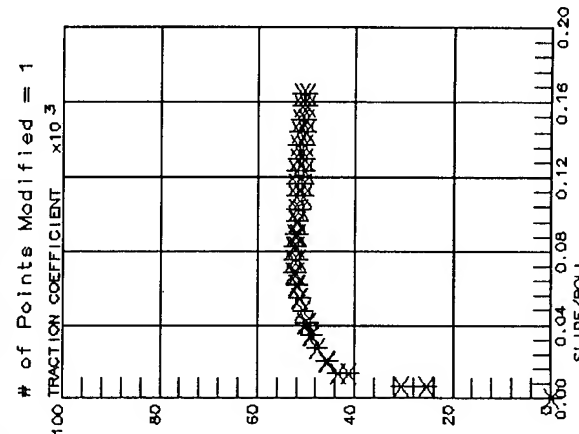
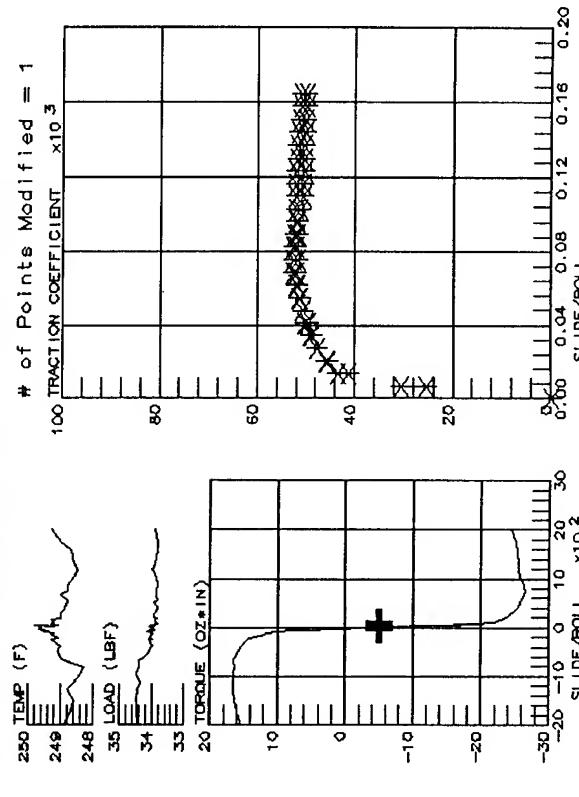


CE 88-177 Demum S-20
250F 34LBF 5080RPM #8

FILE: ce250h

#128

of Points Modified = 1

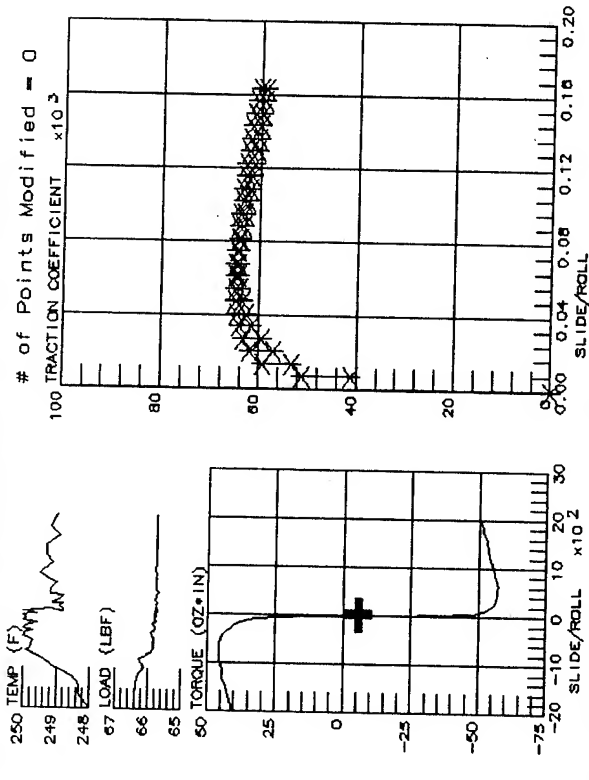


TRACTION DATA

CE 88-177 Demum S-20
250F 67LBF 5080RPM #9

FILE: ce250h

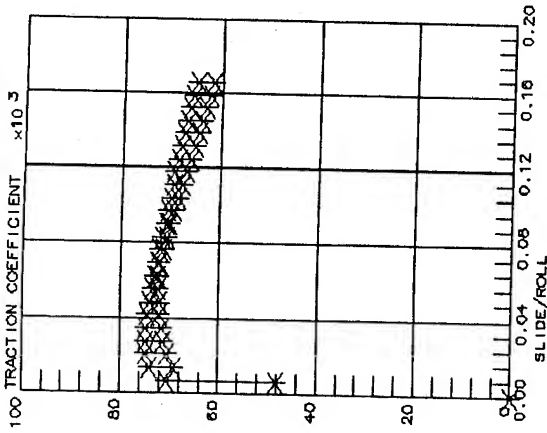
of Points Modified = 0



CE 88-177 Demum S-20
250F 115LBF 5080RPM #10

FILE: ce250h

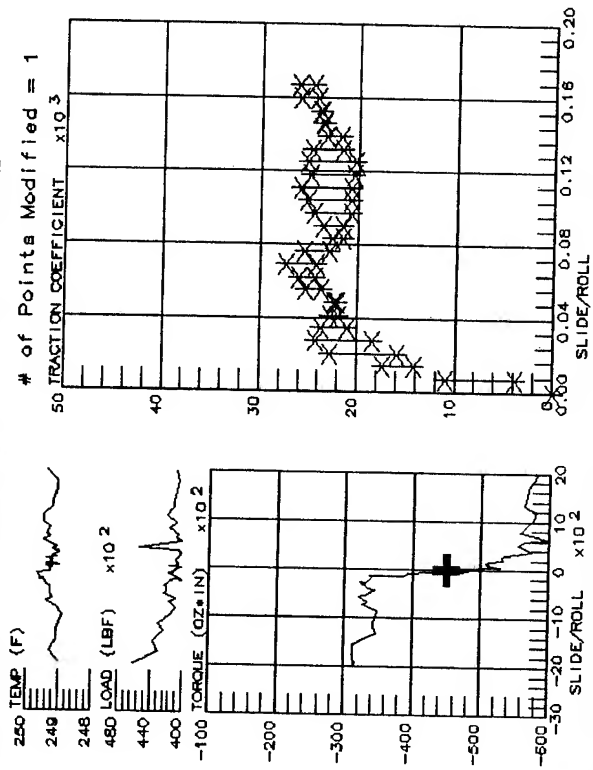
of Points Modified = 0



CE 88-177 Demum S-20
250F 5LBF 7639RPM #11

FILE: ce250h

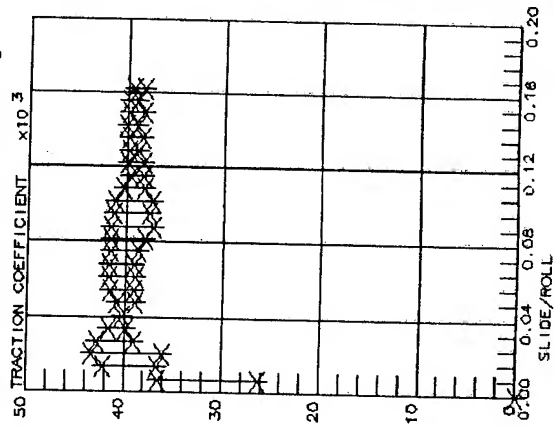
of Points Modified = 1



CE 88-177 Demum S-20
250F 13LBF 7639RPM #12

FILE: ce250h

of Points Modified = 0

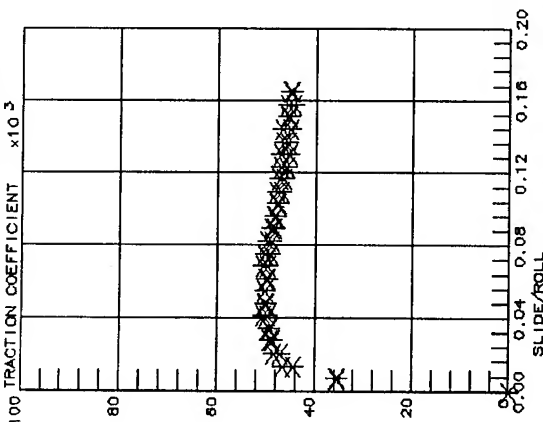
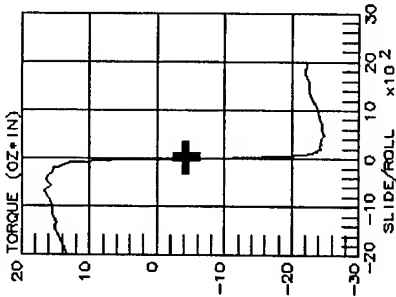
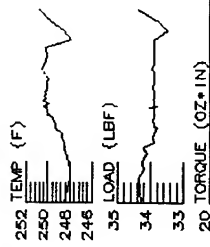


TRACTION DATA

CE 88-177 Deorum S-20
250F 34LF 7639RPM #13

FILE: ce250h

of Points Modified = 0

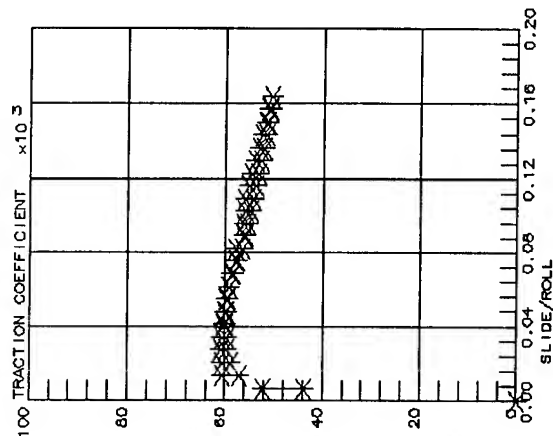
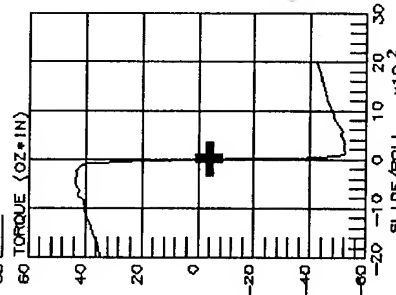
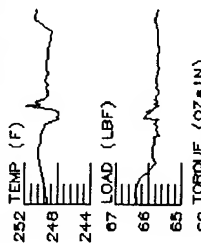


CE 88-177 Dennum S-20
2250F 67LBF 7639RPM #14

平工

FILE: ce250h

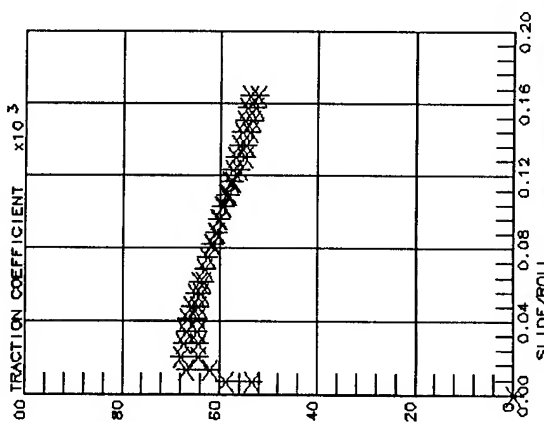
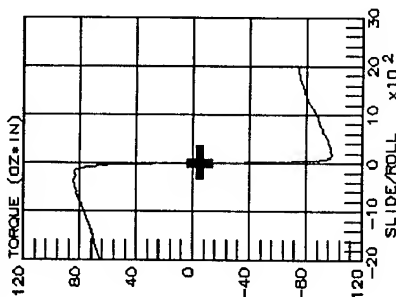
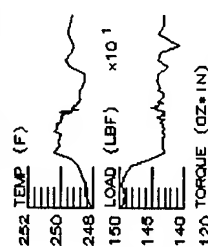
of Points Modified = 0



CE 88-177 Denum S-20
2250F 115LBF 7639RPM #15

FILE: ce250h

of Points Modified = 1

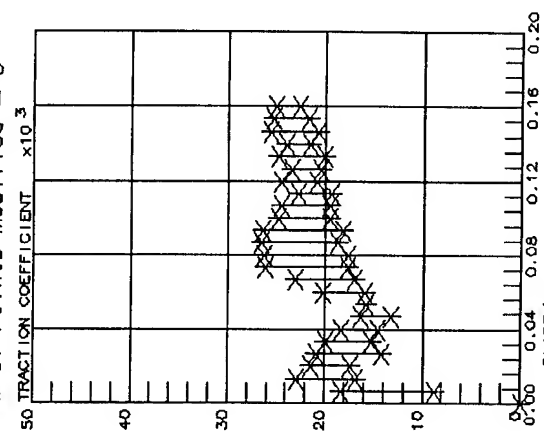
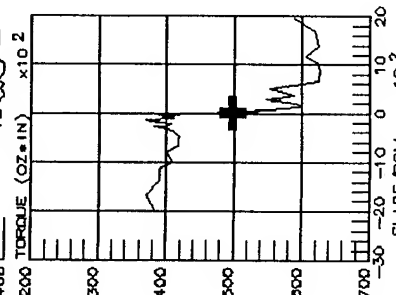
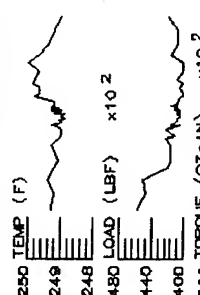


CE 88-177 Demum S-20
2250F 5LBF 10198RPM #18

9-20
#18

FILE: ce250h

of Points Modified = 0



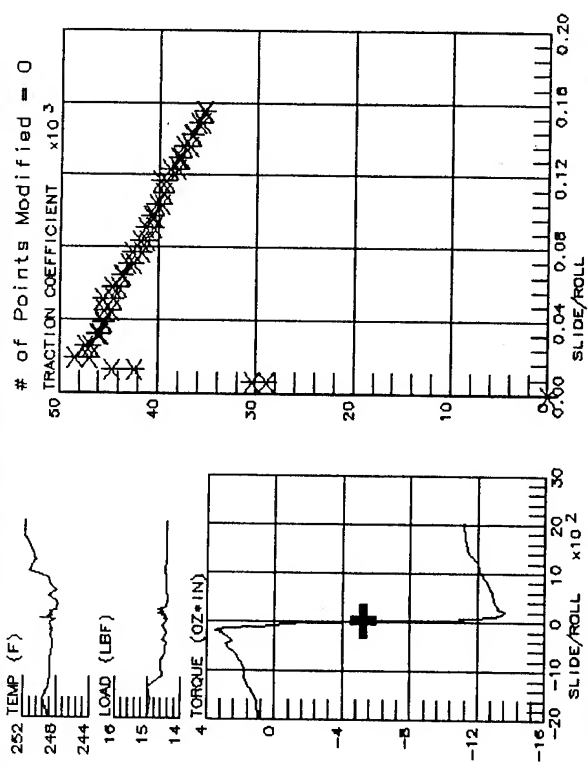
TRACTION DATA

CE 88-177 Demum S-20
250F 15LBF 10198RPM #17

FILE: ce250h

#137

of Points Modified = 0

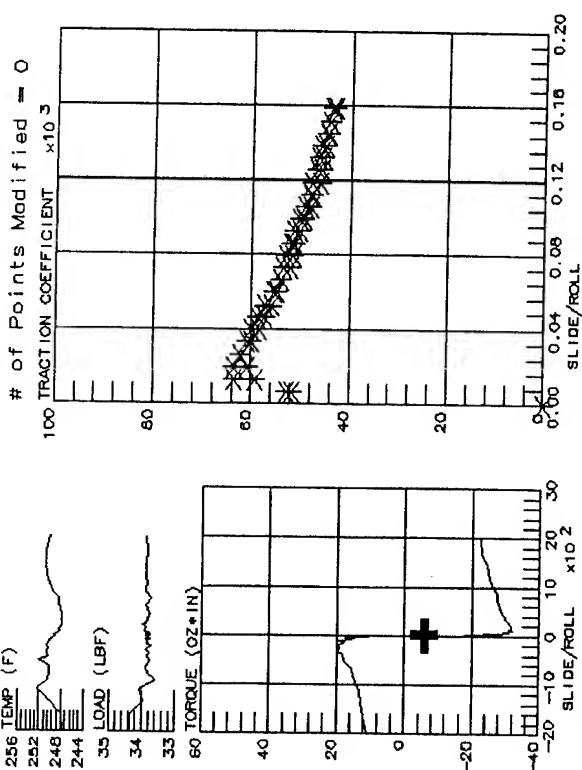


CE 88-177 Demum S-20
250F 34LBF 10198RPM #18

FILE: ce250h

#138

of Points Modified = 0

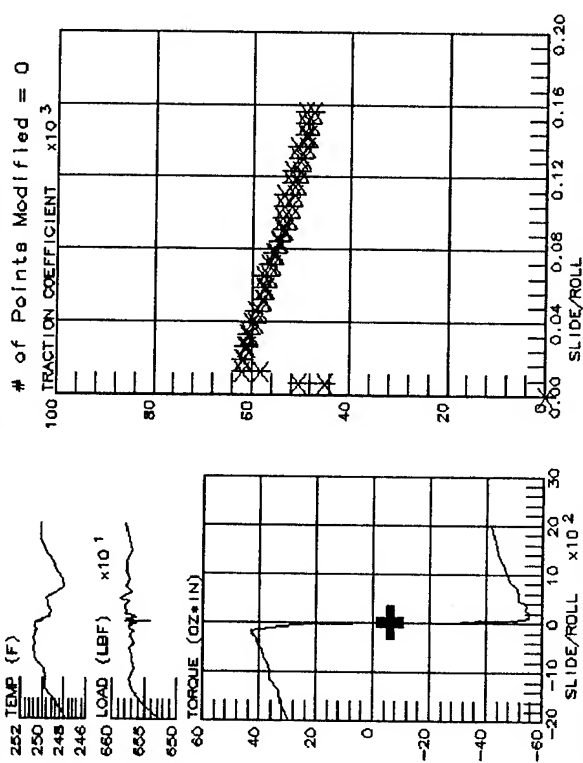


CE 88-177 Demum S-20
250F 87LBF 10198RPM #19

FILE: ce250h

#139

of Points Modified = 0

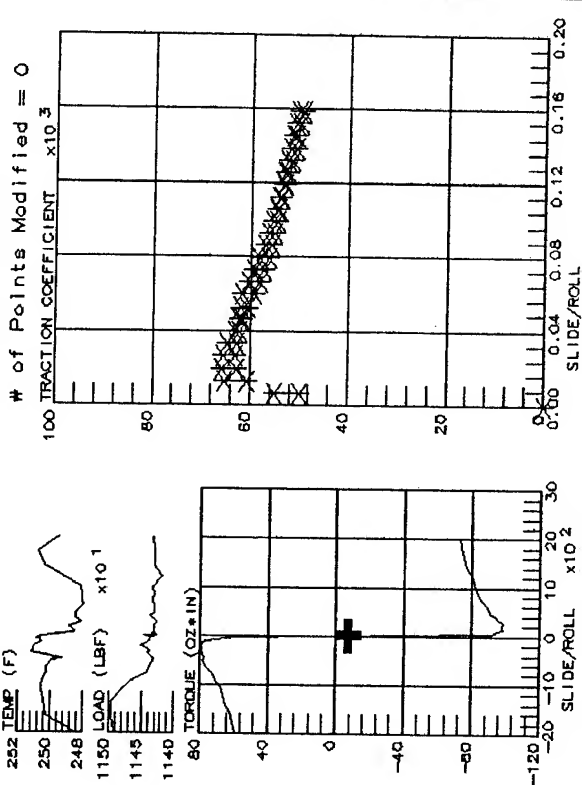


CE 88-177 Demum S-20
250F 115LBF 10198RPM #20

FILE: ce250h

#140

of Points Modified = 0



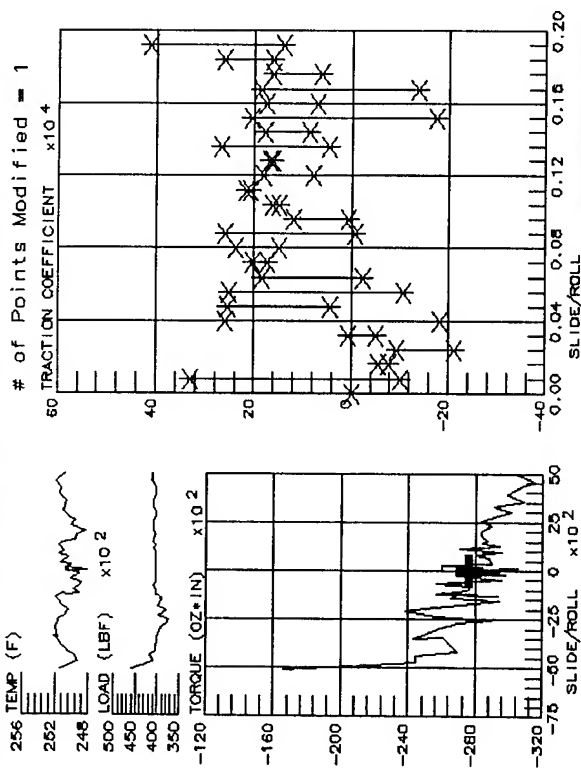
TRACTION DATA

CE 88-177 Demum S-20
250F 6LBF 152RPM #1

FILE: ce2501

#141

of Points Modified = 1

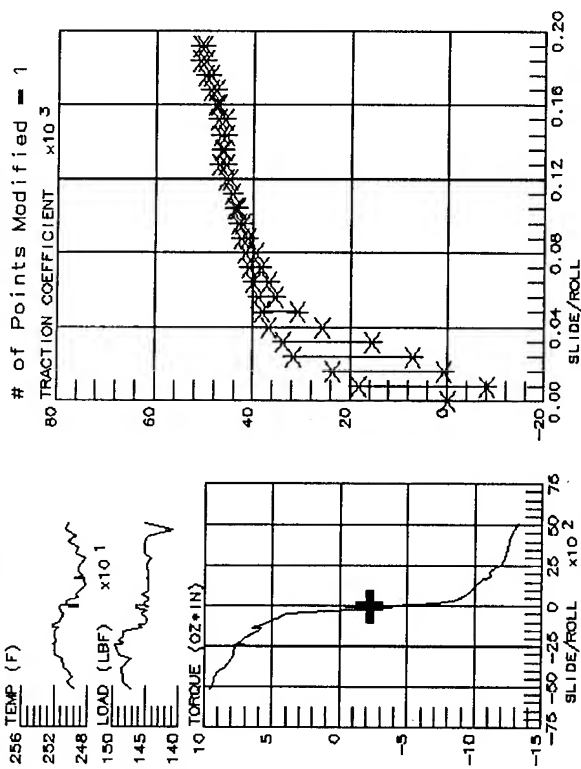


CE 88-177 Demum S-20
250F 16LBF 152RPM #2

FILE: ce2501

#142

of Points Modified = 1

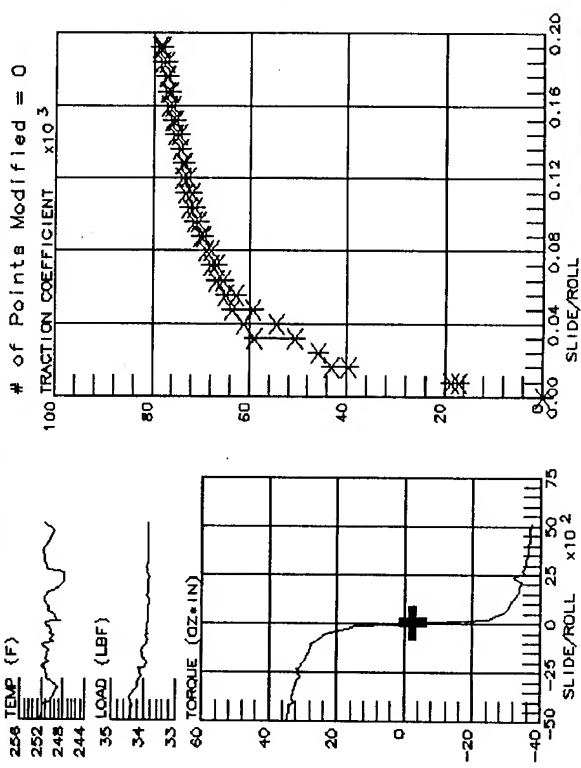


CE 88-177 Demum S-20
250F 34LBF 152RPM #3

FILE: ce2501

#143

of Points Modified = 0

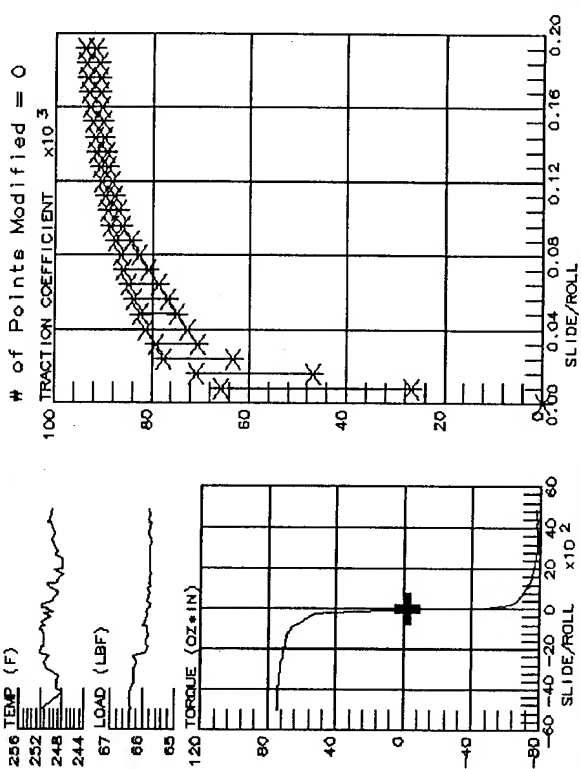


CE 88-177 Demum S-20
250F 67LBF 152RPM #4

FILE: ce2501

#144

of Points Modified = 0

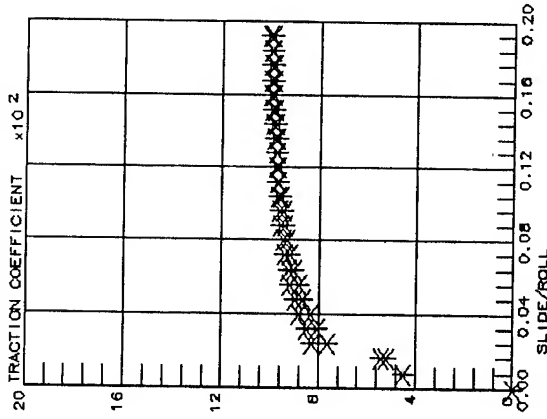
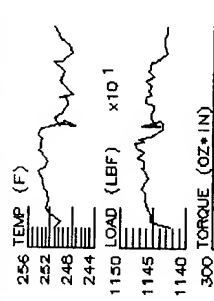


TRACTION DATA

CE 88-177 Demum S-20
250F 115LBF 152RPM #5

FILE: ce2501 #145

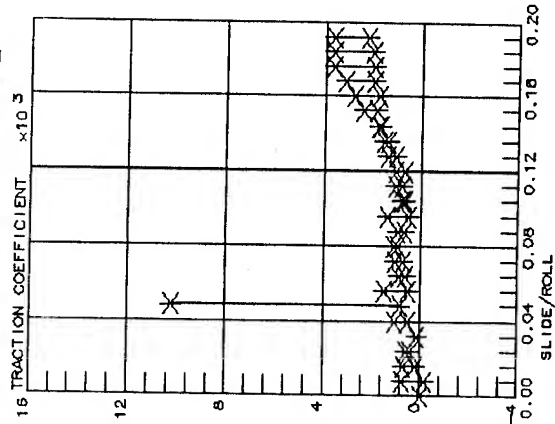
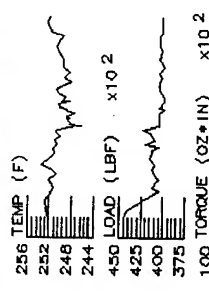
of Points Modified = 1



CE 88-177 Demum S-20
250F 51LBF 305RPM #8

FILE: ce2501 #148

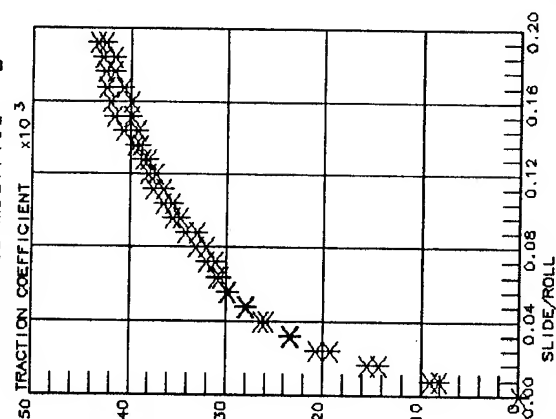
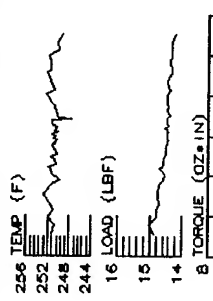
of Points Modified = 2



CE 88-177 Demum S-20
250F 15LBF 305RPM #7

FILE: ce2501 #147

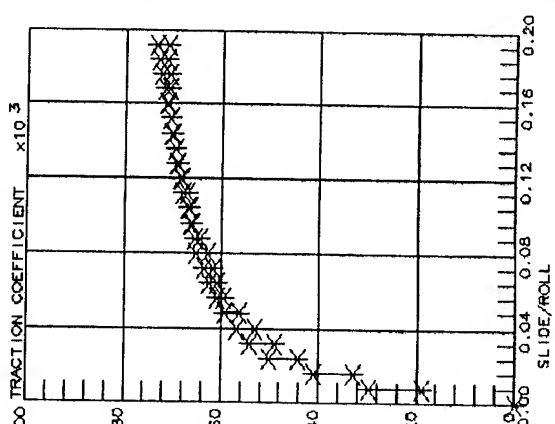
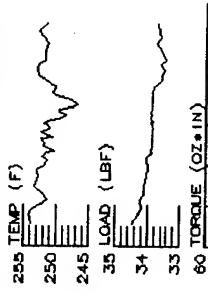
of Points Modified = 3



CE 88-177 Demum S-20
250F 34LBF 305RPM #8

FILE: ce2501 #148

of Points Modified = 1



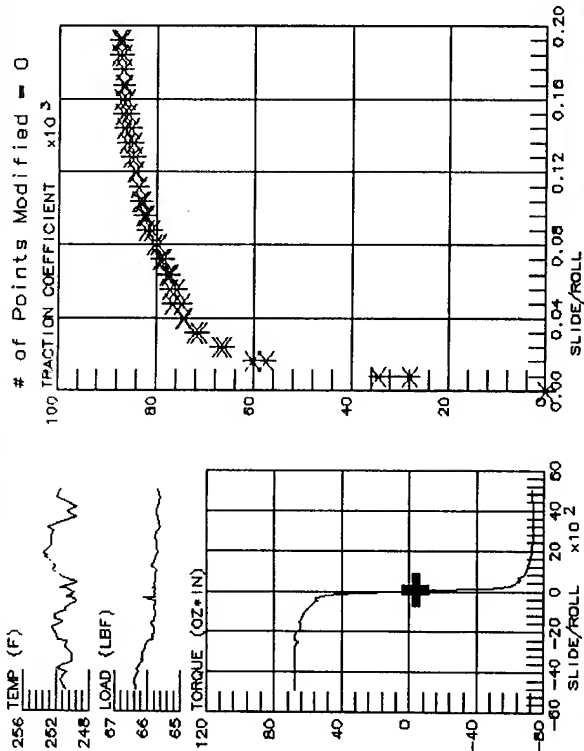
TRACTION DATA

CE 88-177 Demum S-20
250F 67LBF 305RPM #9

FILE: ce2501

#149

of Points Modified = 0

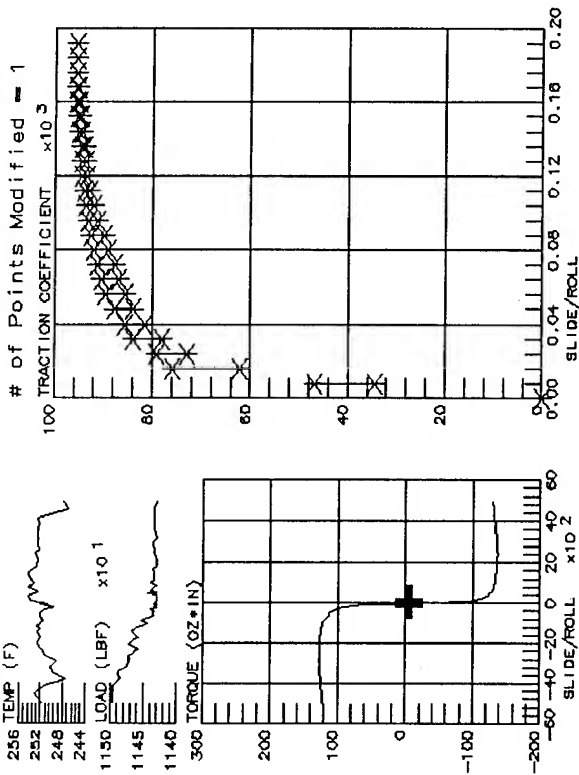


CE 88-177 Demum S-20
250F 115LBF 305RPM #10

FILE: ce2501

#150

of Points Modified = 1

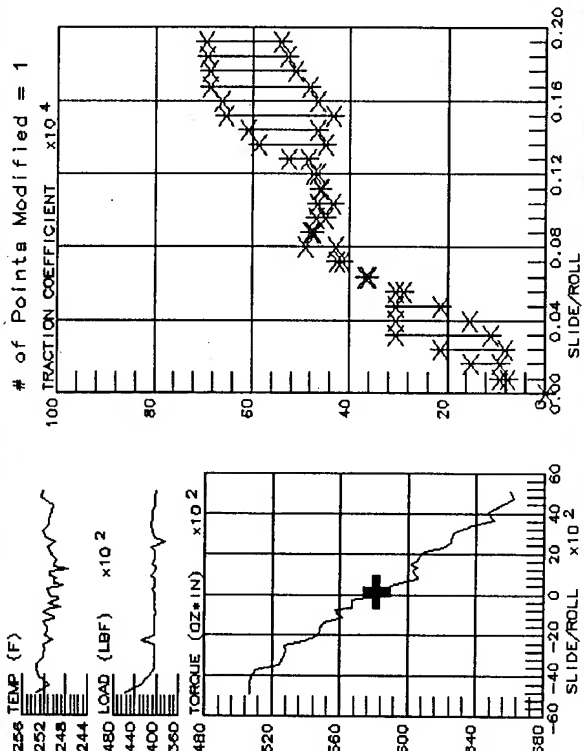


CE 88-177 Demum S-20
250F 5LBF 649RPM #11

FILE: ce2501

#151

of Points Modified = 1

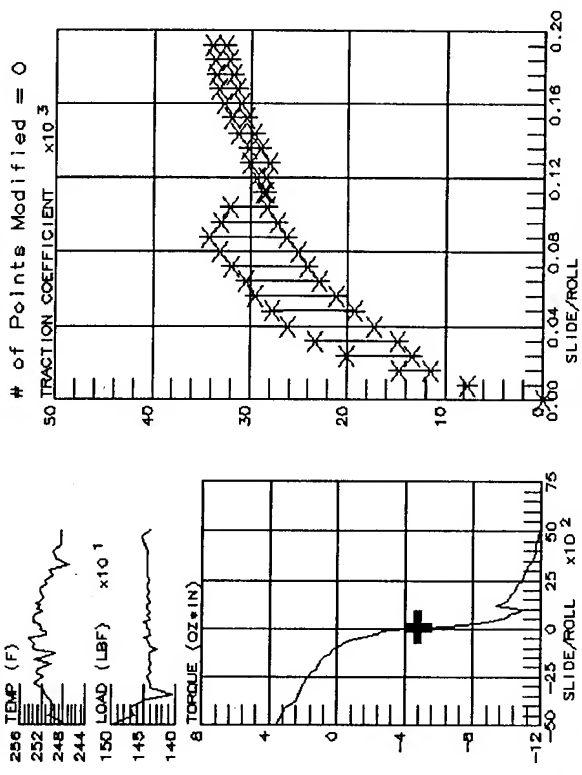


CE 88-177 Demum S-20
250F 15LBF 649RPM #12

FILE: ce2501

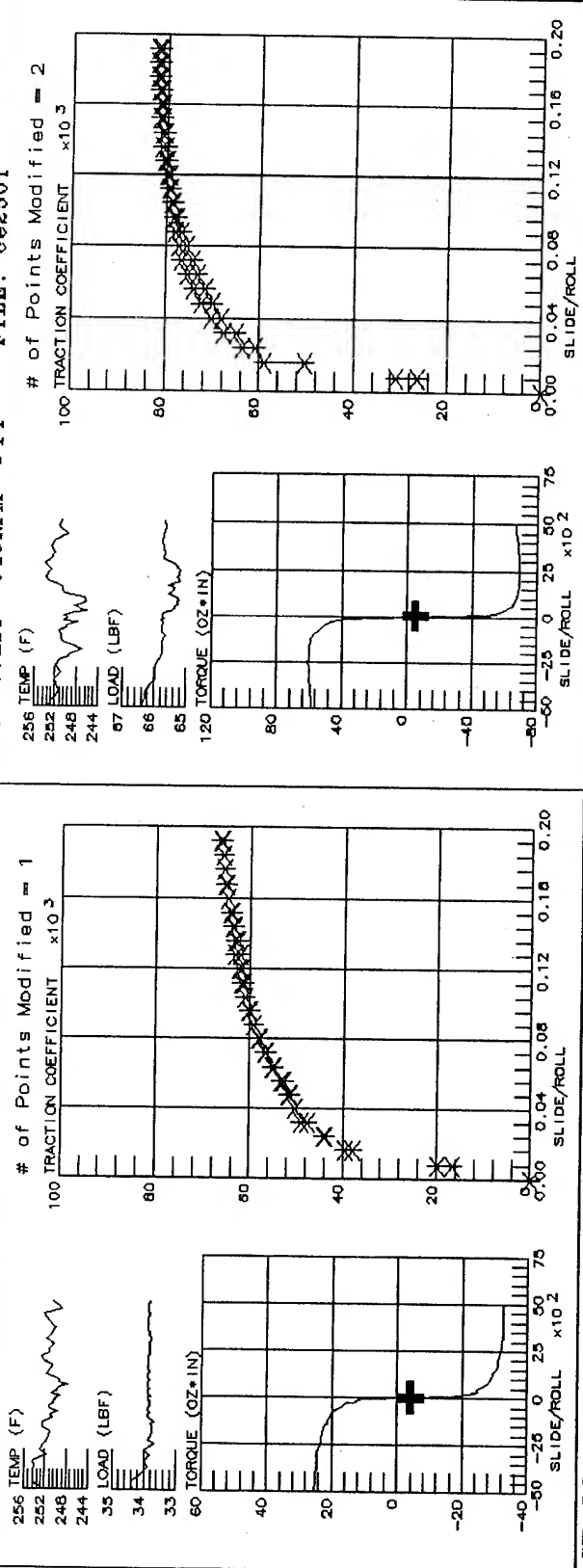
#152

of Points Modified = 0

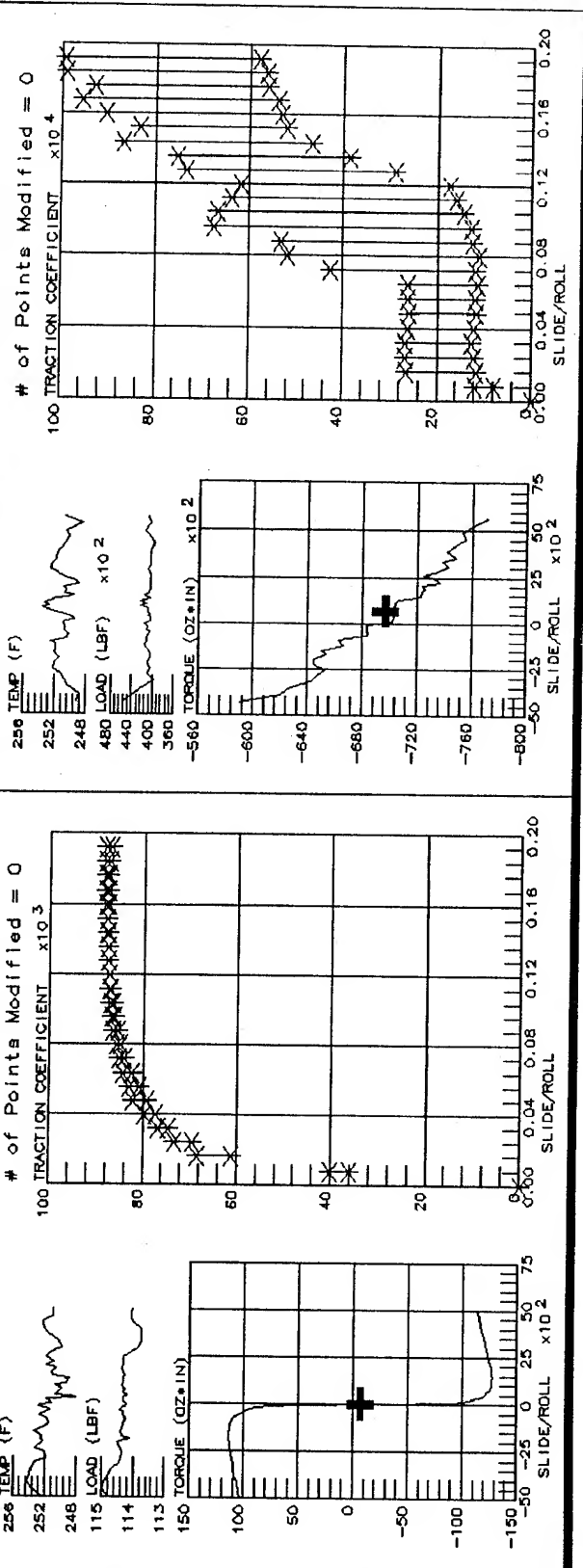


TRACTION DATA

CE 88-177 Demum S-20 250F 34LBF 649RPM #13 FILE: ce2501 #153



CE 88-177 Demum S-20 250F 51LBF 1260RPM #16 FILE: ce2501 #156



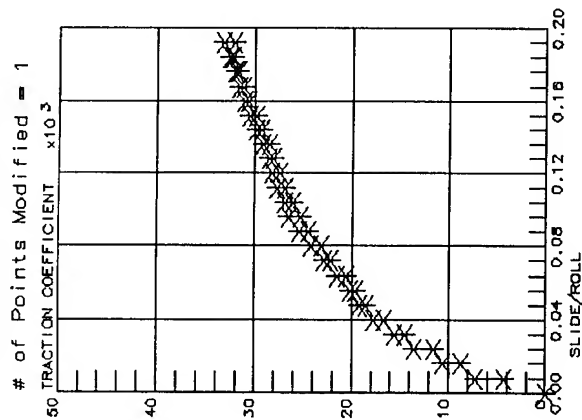
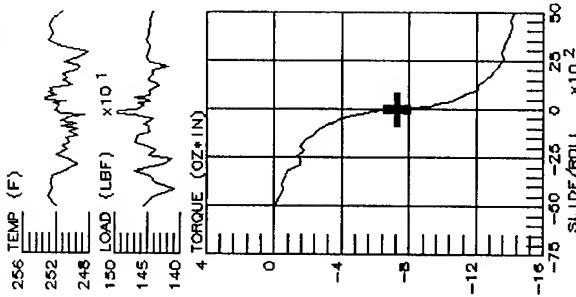
TRACTION DATA

CE 88-177 Demum S-20
250F 15LBF 1260RPM #17

FILE: ce2501

#157

of Points Modified = 1

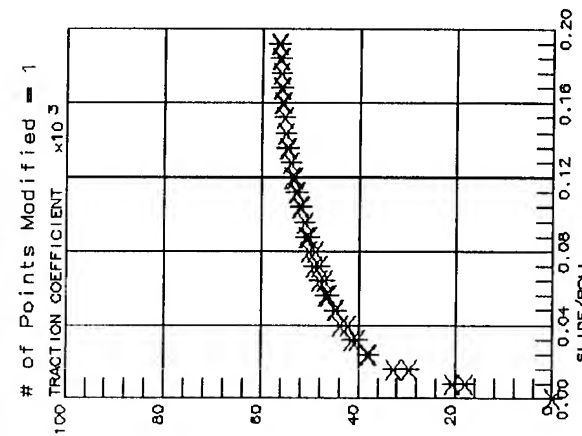
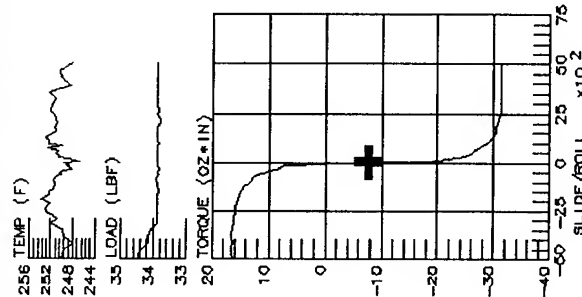


CE 88-177 Demum S-20
250F 34LBF 1260RPM #18

FILE: ce2501

#158

of Points Modified = 1

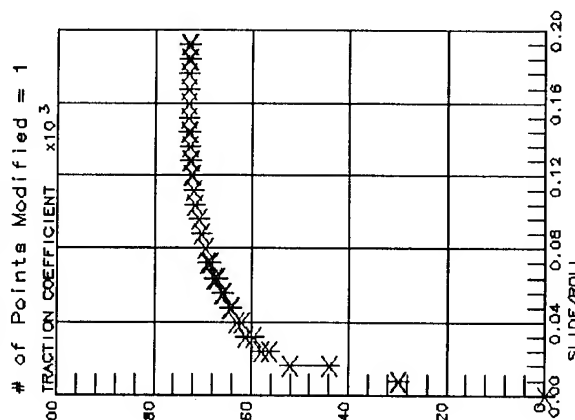
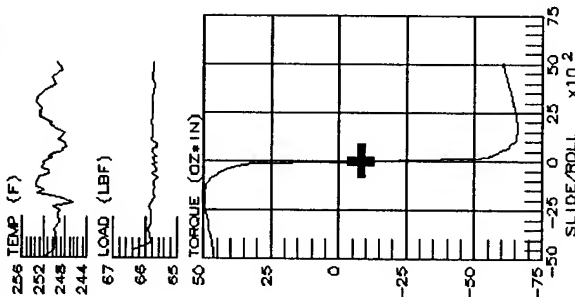


CE 88-177 Demum S-20
250F 67LBF 1260RPM #19

FILE: ce2501

#159

of Points Modified = 1

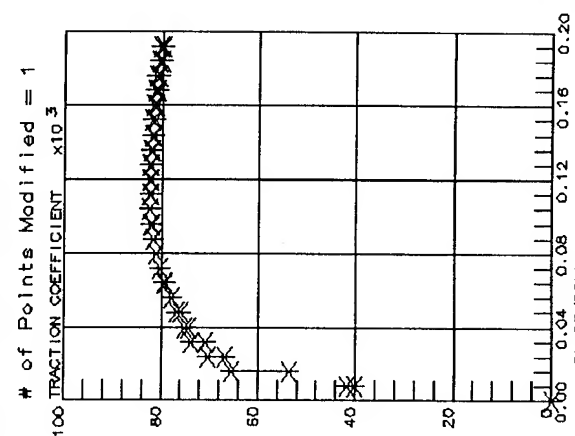
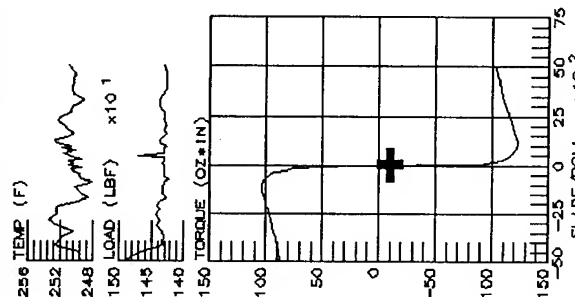


CE 88-177 Demum S-20
250F 115LBF 1260RPM #20

FILE: ce2501

#160

of Points Modified = 1



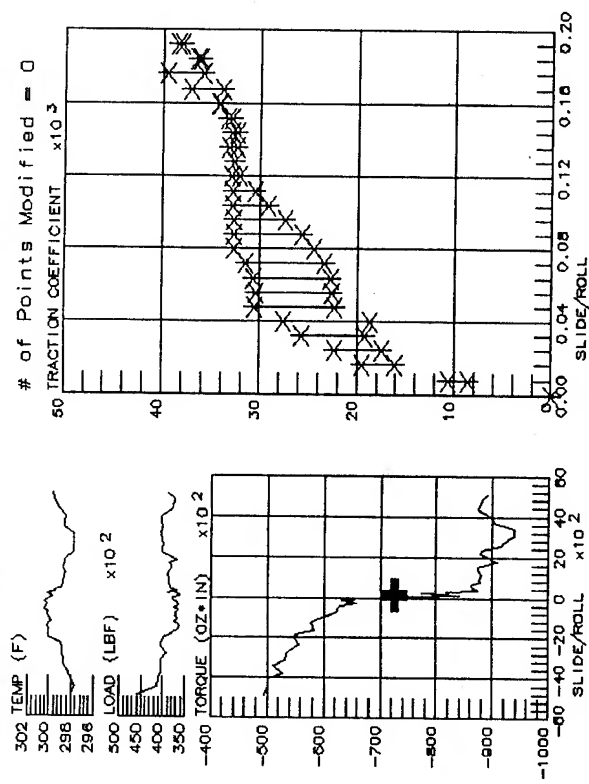
TRACTION DATA

CE 88-177 Demum S-20
300F 5LBF 2559RPM #1

FILE: ce300h

#161

of Points Modified = 0

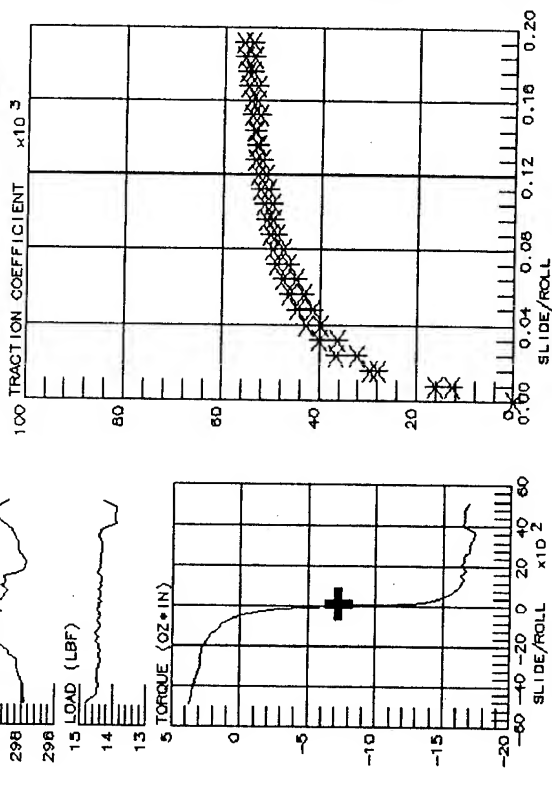


CE 88-177 Demum S-20
300F 15LBF 2559RPM #2

FILE: ce300h

#162

of Points Modified = 2

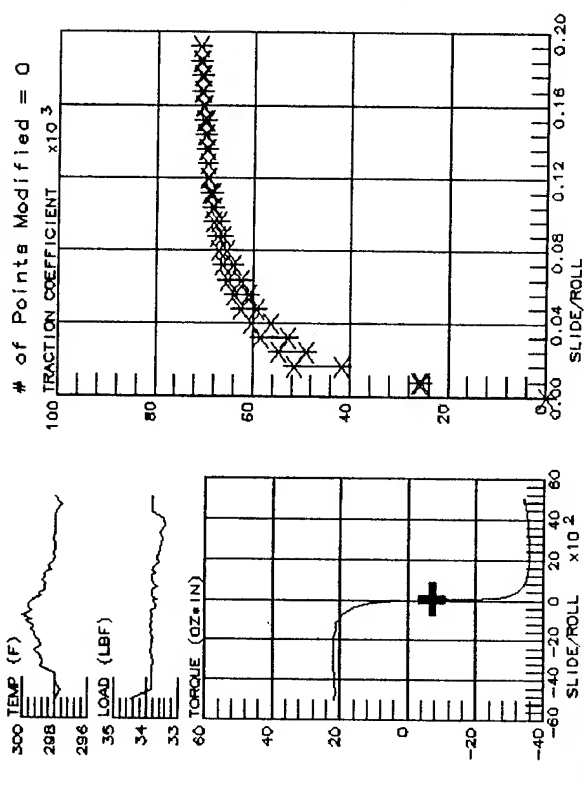


CE 88-177 Demum S-20
300F 34LBF 2559RPM #3

FILE: ce300h

#163

of Points Modified = 0

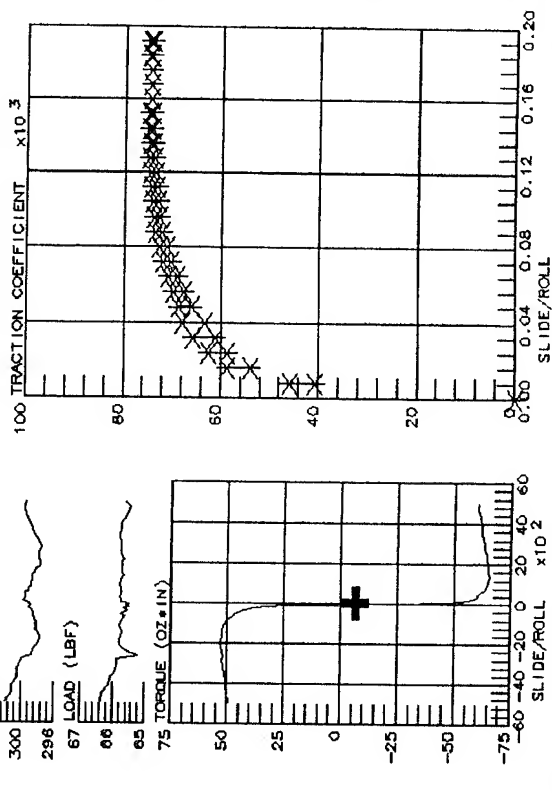


CE 88-177 Demum S-20
300F 67LBF 2559RPM #4

FILE: ce300h

#164

of Points Modified = 1



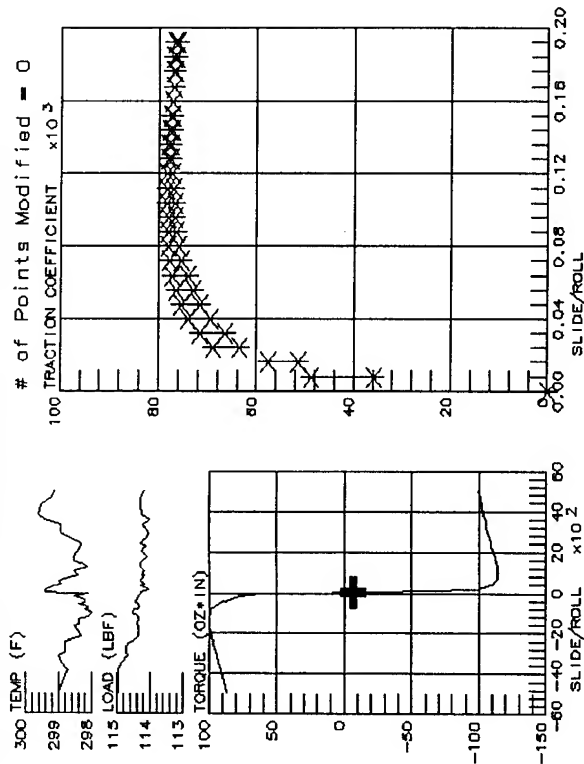
TRACTION DATA

CE 88-177 Demum S-20
300F 115LBF 2669RPM #5

FILE: ce300h

#186

of Points Modified = 0

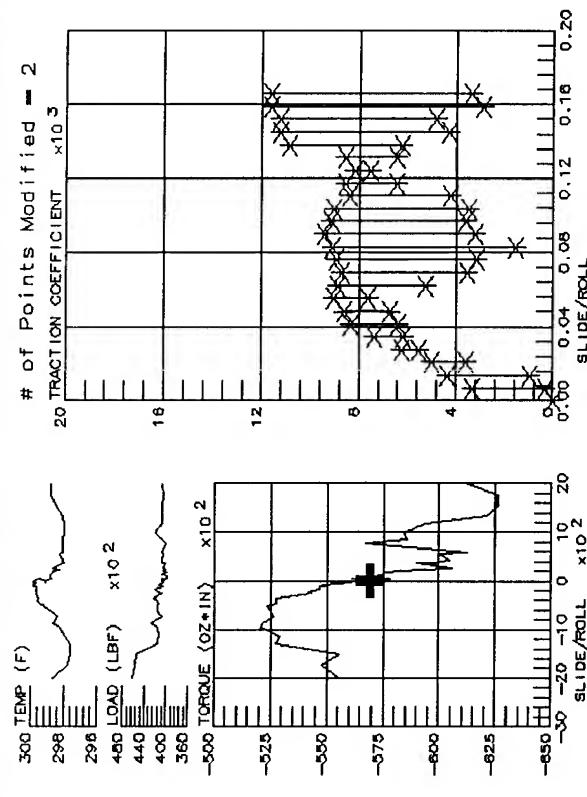


CE 88-177 Demum S-20
300F 5LBF 5080RPM #6

FILE: ce300h

#168

of Points Modified = 2

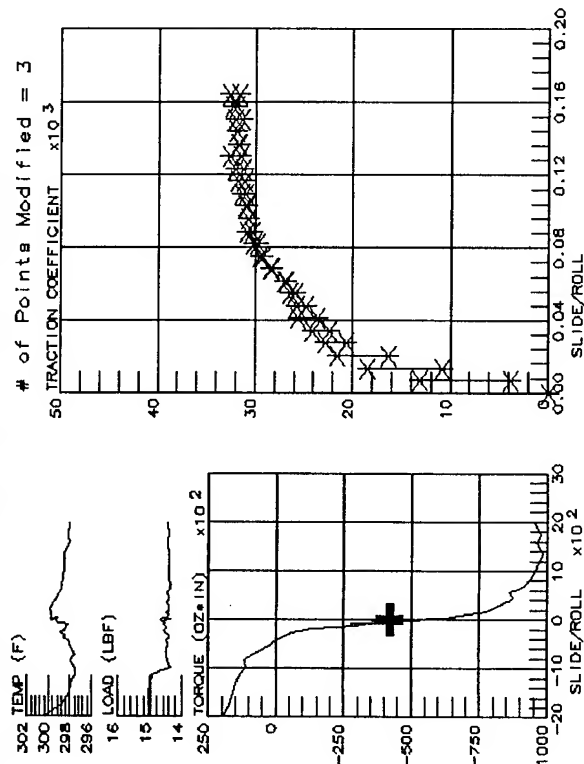


CE 88-177 Demum S-20
300F 15LBF 5080RPM #7

FILE: ce300h

#167

of Points Modified = 3

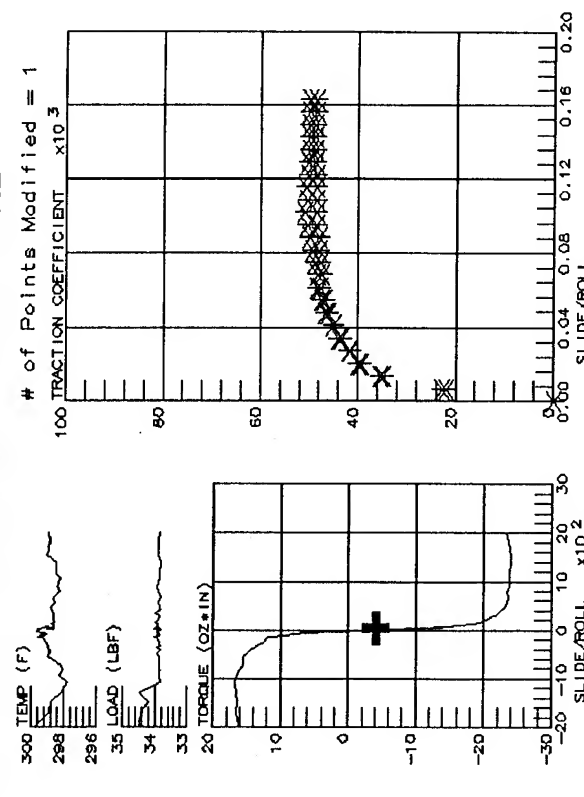


CE 88-177 Demum S-20
300F 34LBF 5080RPM #8

FILE: ce300h

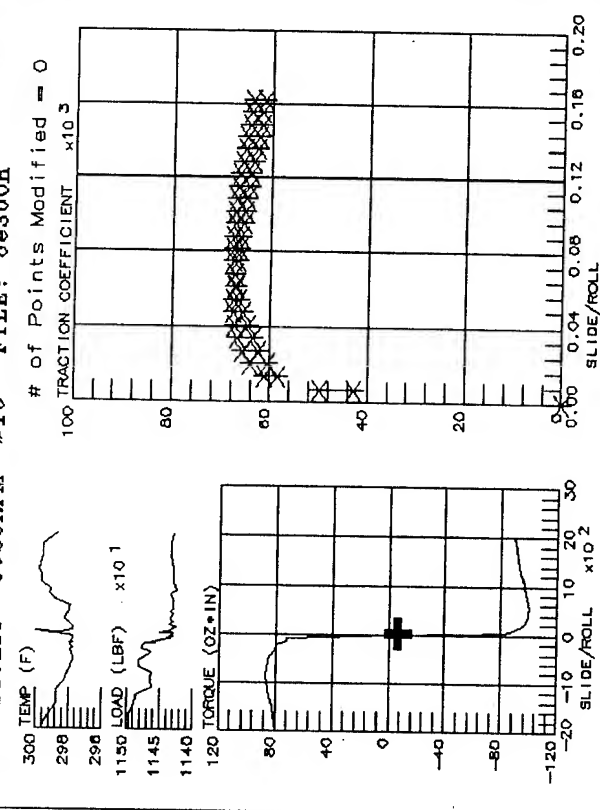
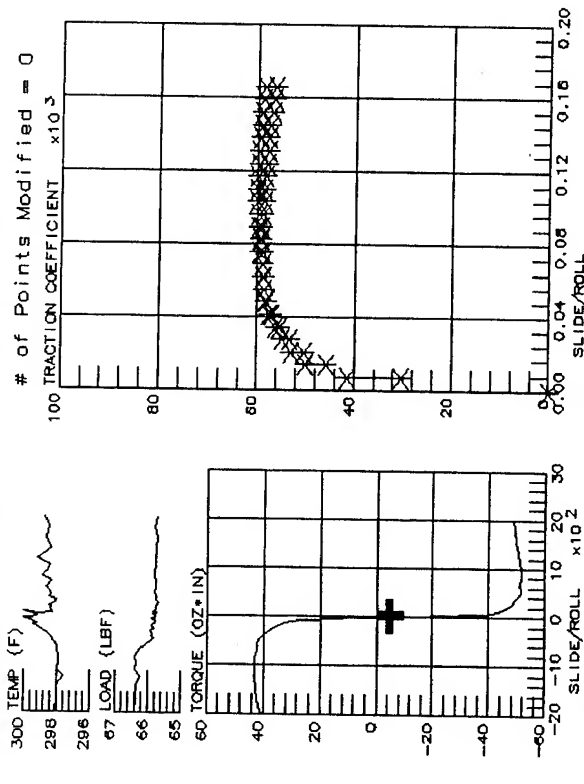
#168

of Points Modified = 1

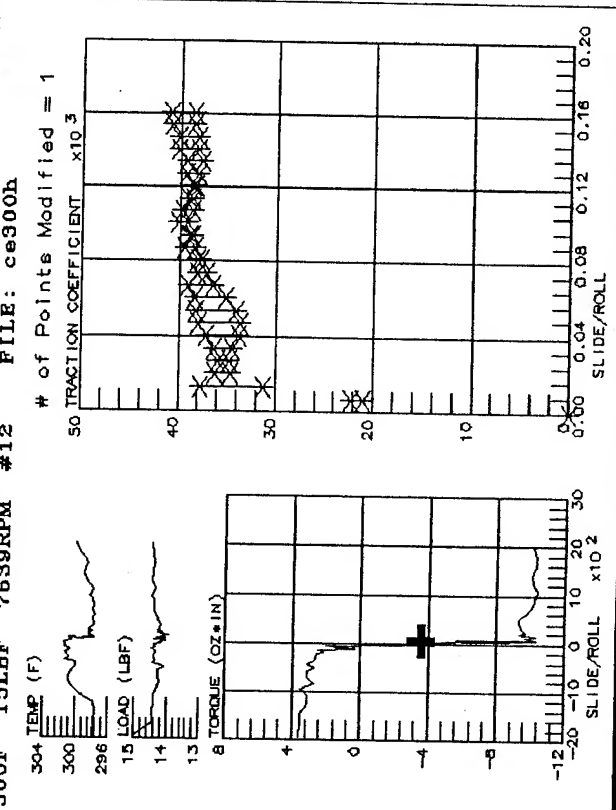
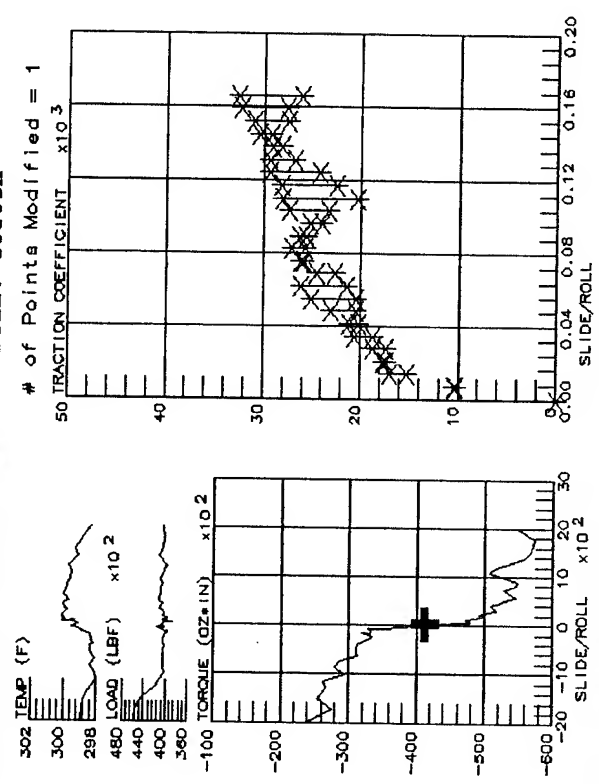


TRACTION DATA

CE 88-177 Dennum S-20 #169 FILE: ce300h #170
 300F 67LBF 5080RPM #9 300F 115LBF 5080RPM #10 FILE: ce300h



CE 88-177 Dennum S-20 #171 FILE: ce300h #172
 300F 5LBF 7639RPM #11 300F 15LBF 7639RPM #12 FILE: ce300h



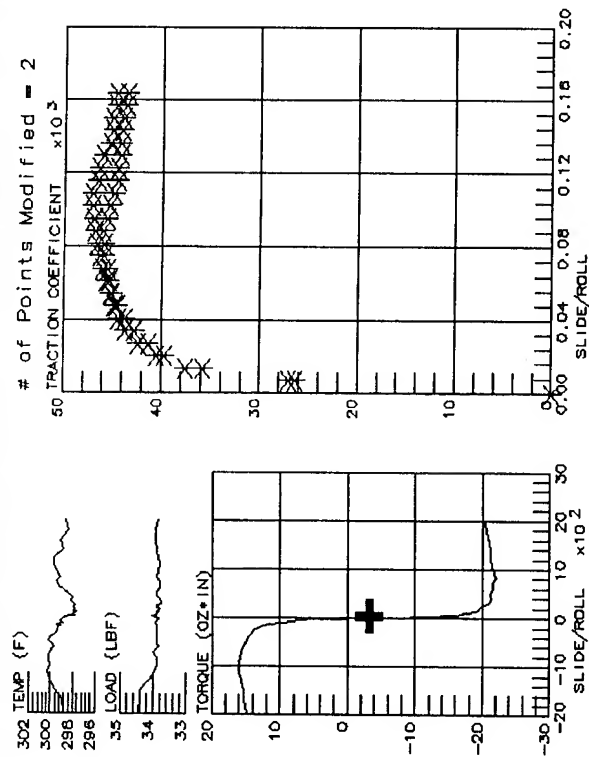
TRACTION DATA

CE 88-177 Demum S-20
300F 34LBF 7639RPM #13

FILE: ce300h

#173

of Points Modified = 2

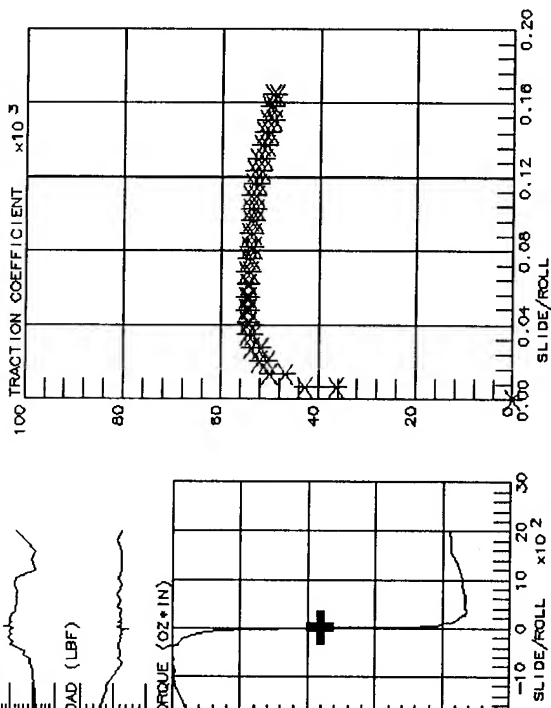


CE 88-177 Demum S-20
300F 87LBF 7639RPM #14

FILE: ce300h

#174

of Points Modified = 1

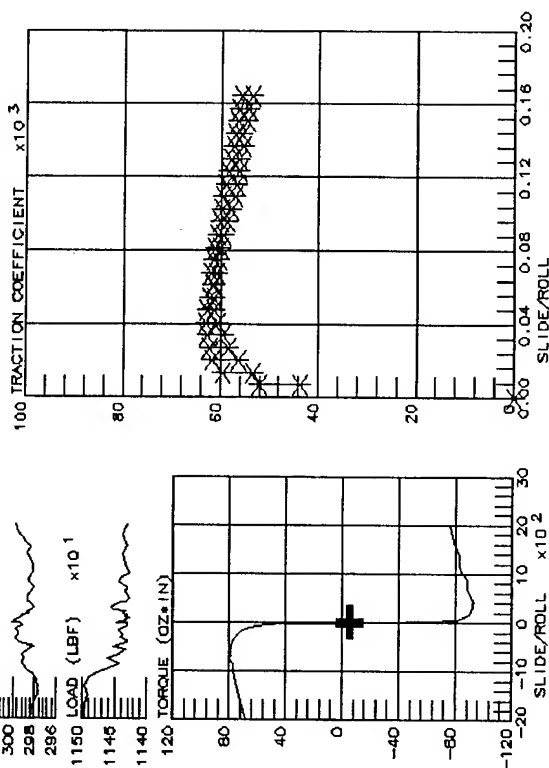


CE 88-177 Demum S-20
300F 115LBF 7639RPM #15

FILE: ce300h

#175

of Points Modified = 0

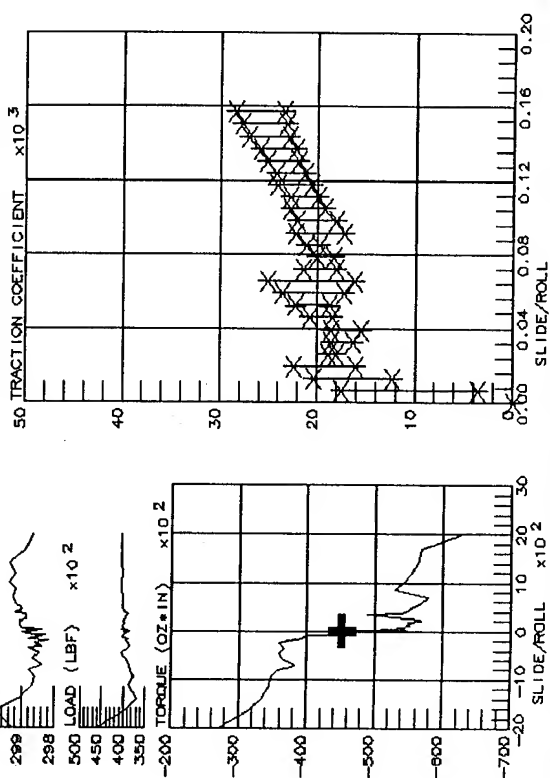


CE 88-177 Demum S-20
300F 51LBF 10196RPM #16

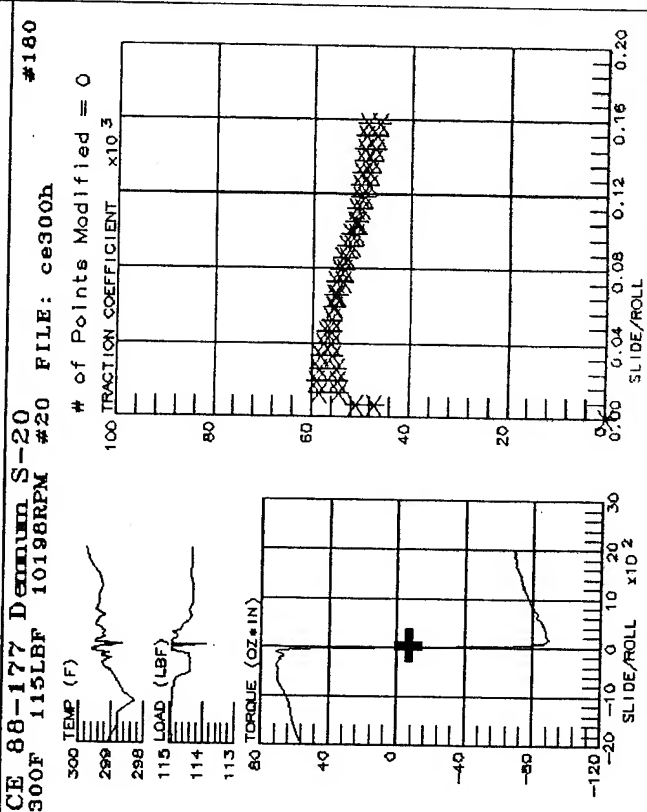
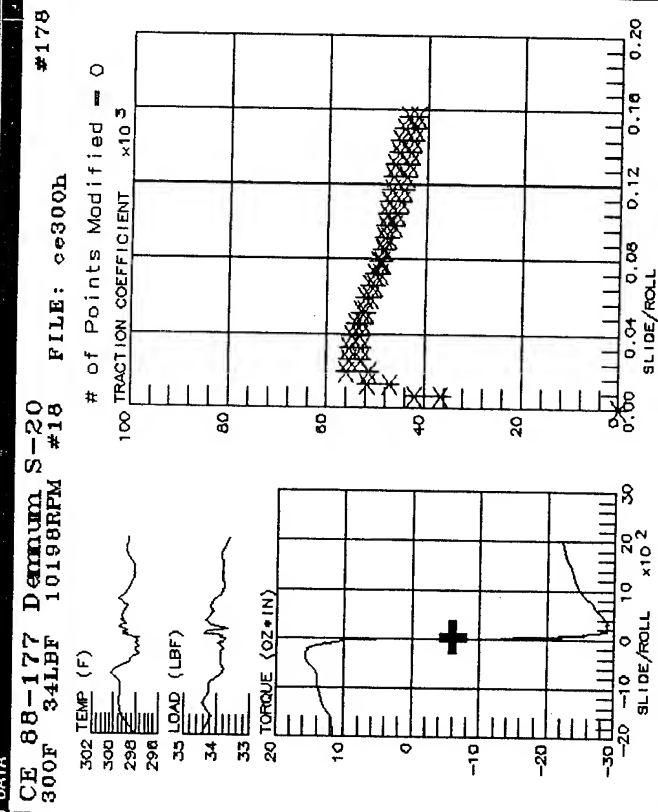
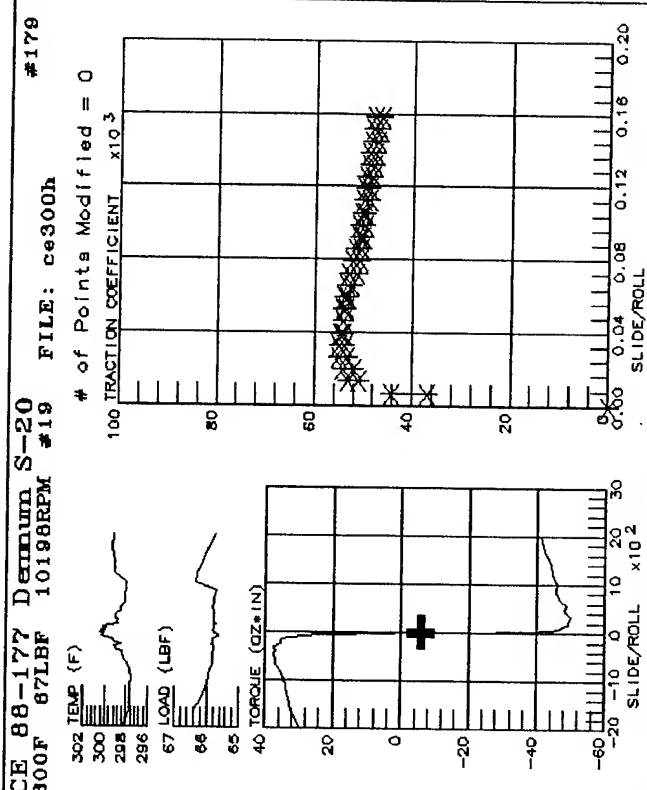
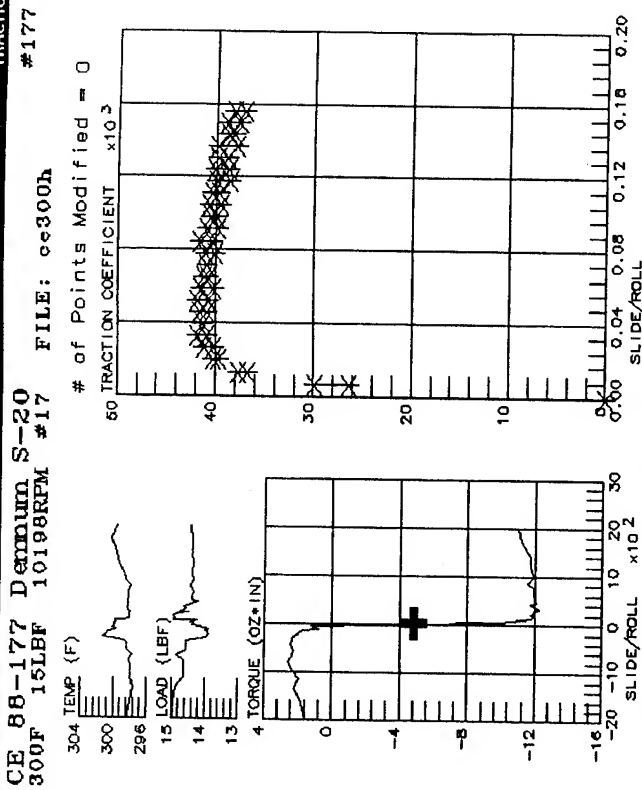
FILE: ce300h

#176

of Points Modified = 3



TRACTION DATA



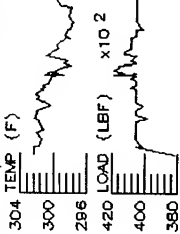
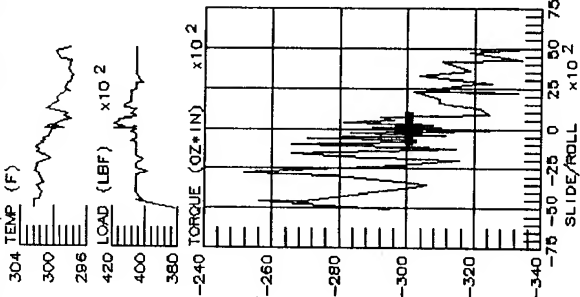
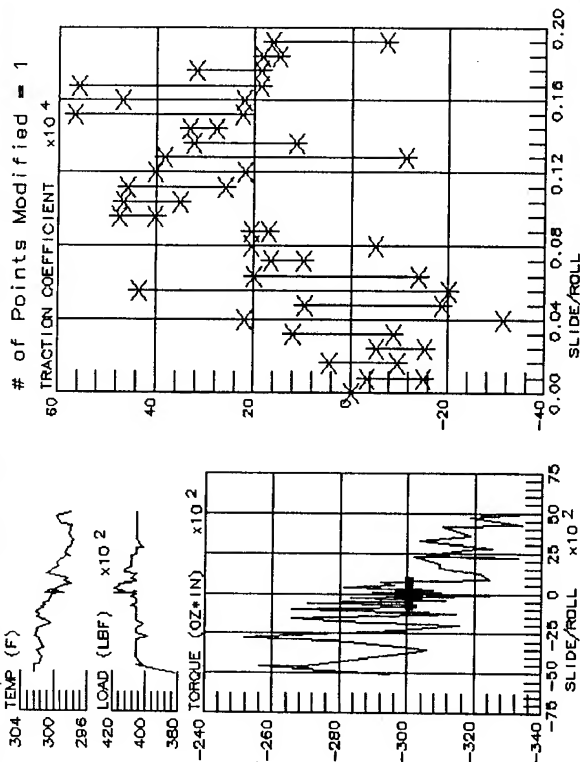
TRACTION DATA

CE 88-177 Demum S-20
300F 5LBF 152RPM #1

FILE: ce3001

#181

of Points Modified = 1

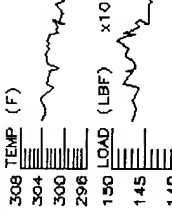
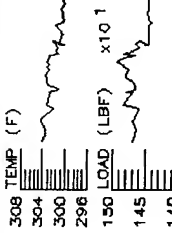
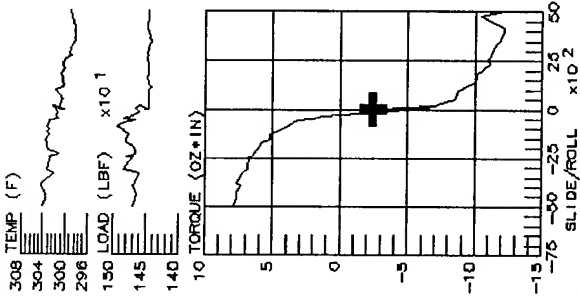
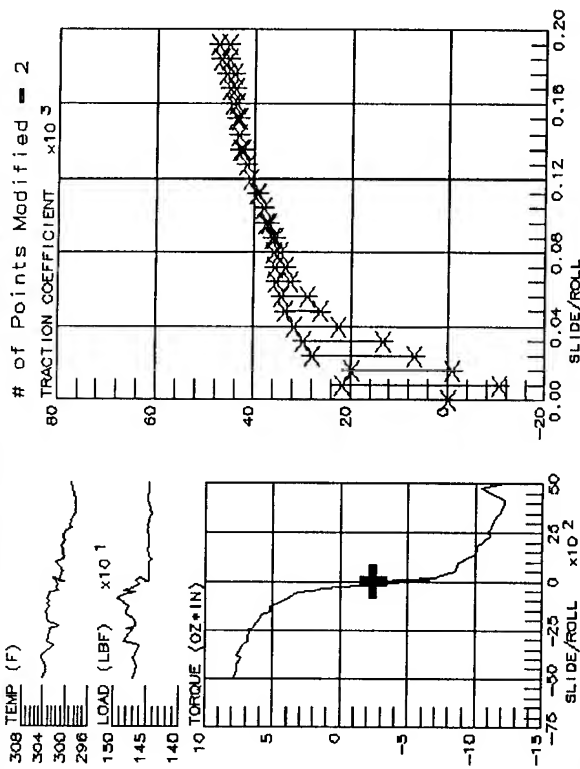


CE 88-177 Demum S-20
300F 15LBF 152RPM #2

FILE: ce3001

#182

of Points Modified = 2

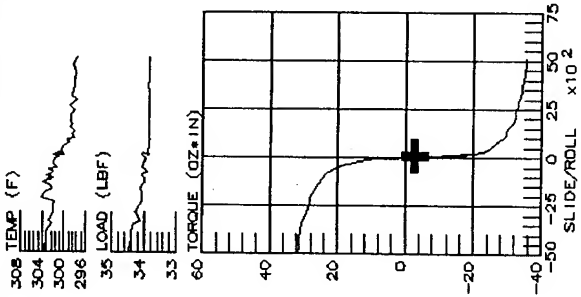
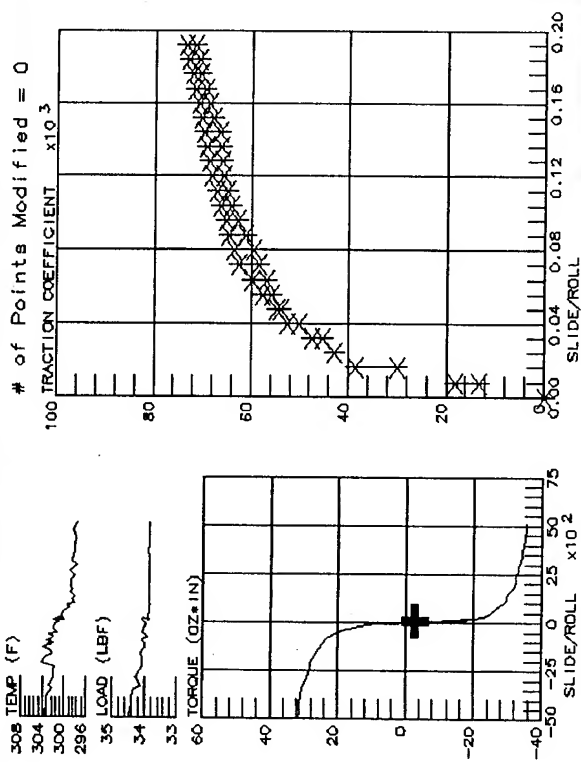


CE 88-177 Demum S-20
300F 34LBF 152RPM #3

FILE: ce3001

#183

of Points Modified = 0

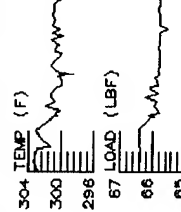
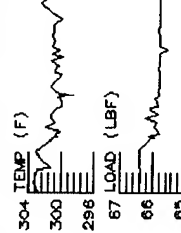
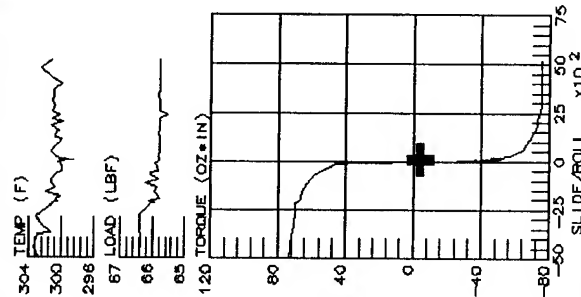
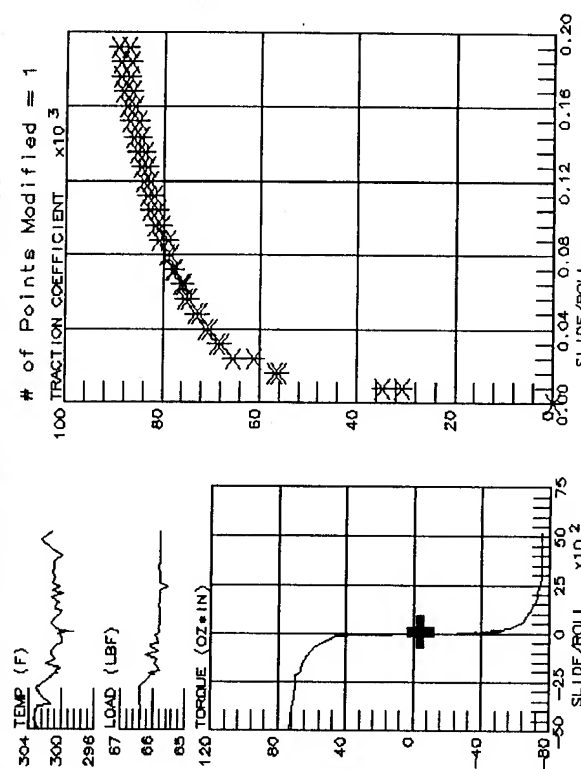


CE 88-177 Demum S-20
300F 67LBF 152RPM #4

FILE: ce3001

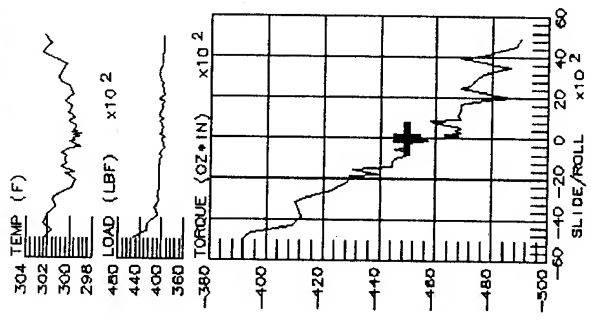
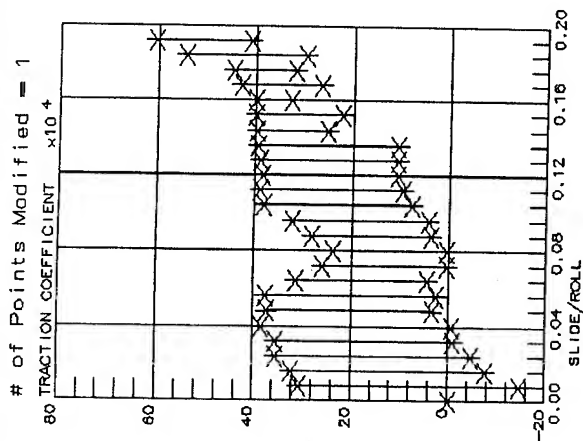
#184

of Points Modified = 1

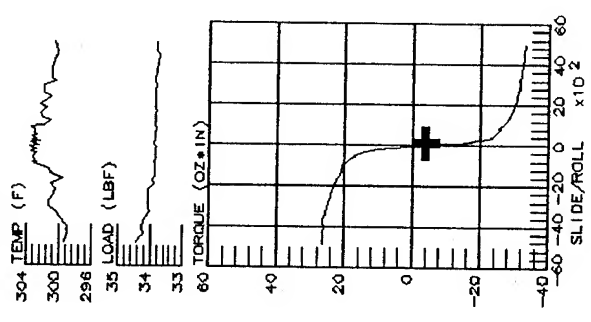
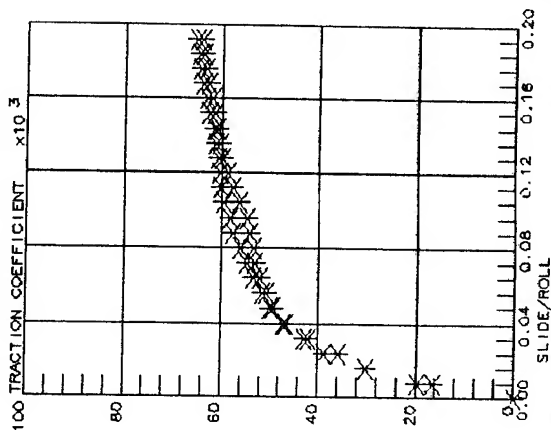


TRACTION DATA

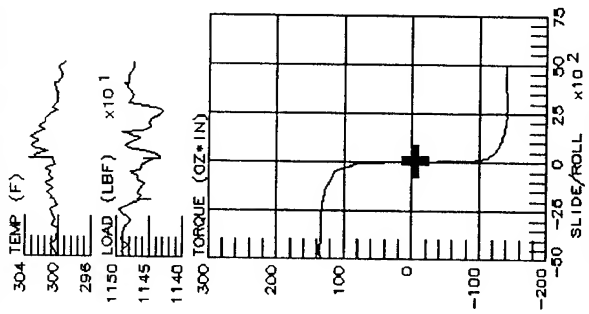
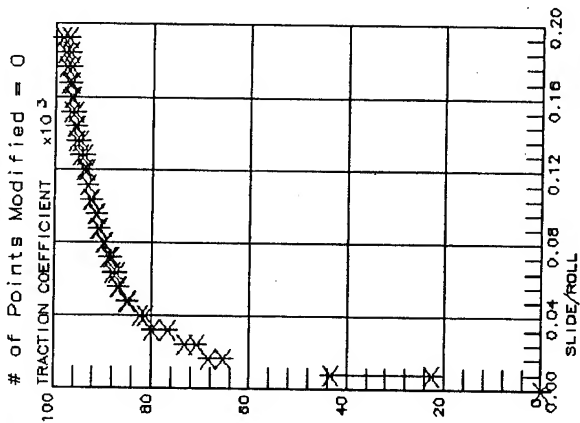
CE 88-177 Demum S-20
300F 5LBF 305RPM #8
FILE: ce3001
#186



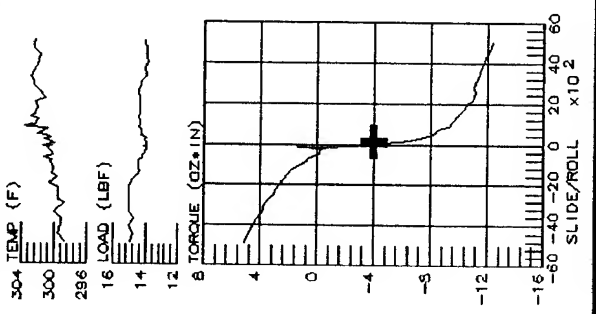
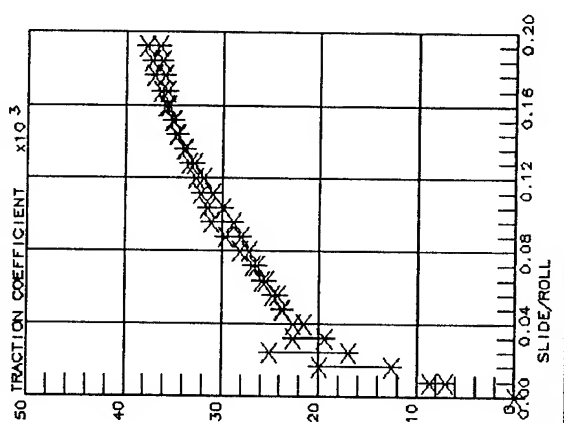
CE 88-177 Demum S-20
300F 34LBF 305RPM #8
FILE: ce3001
#188



CE 88-177 Demum S-20
300F 115LBF 162RPM #5
FILE: ce3001
#185



CE 88-177 Demum S-20
300F 15LBF 305RPM #7
FILE: ce3001
#187



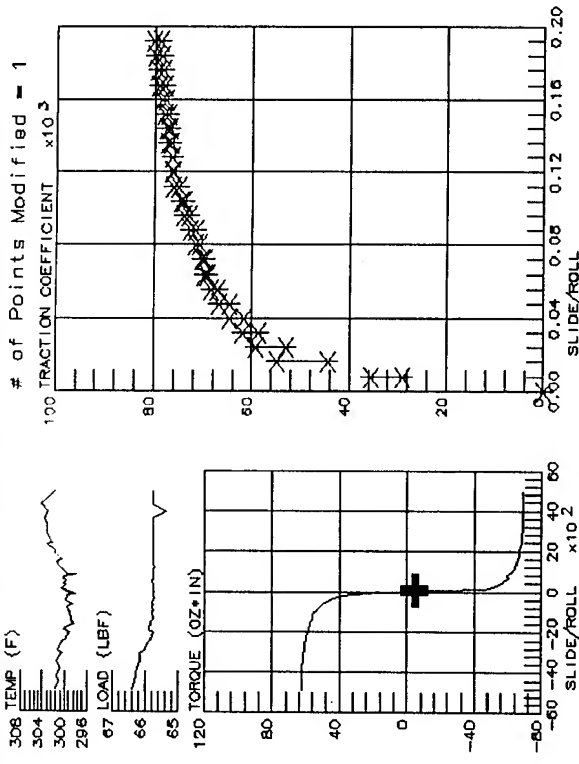
TRACTION DATA

CE 88-177 Demum S-20
300F 67LBF 305RPM #9

FILE: ce3001

#189

of Points Modified = 1

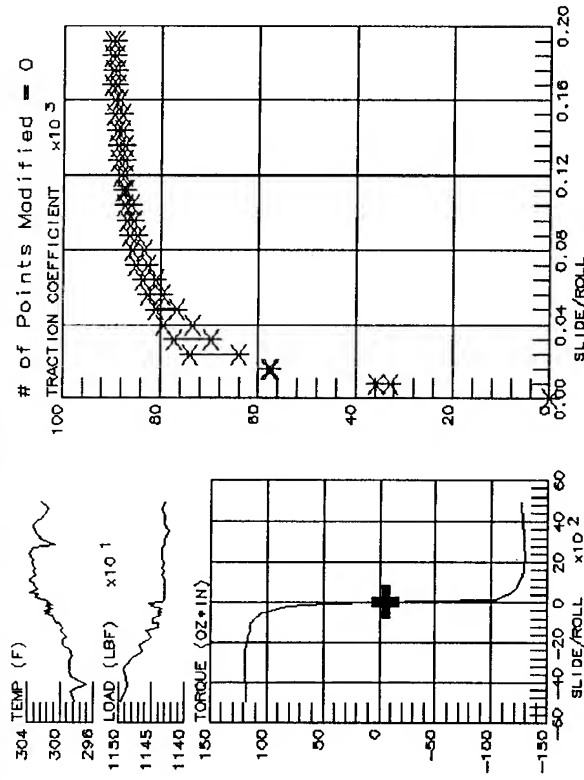


CE 88-177 Demum S-20
300F 115LBF 305RPM #10

FILE: ce3001

#190

of Points Modified = 0

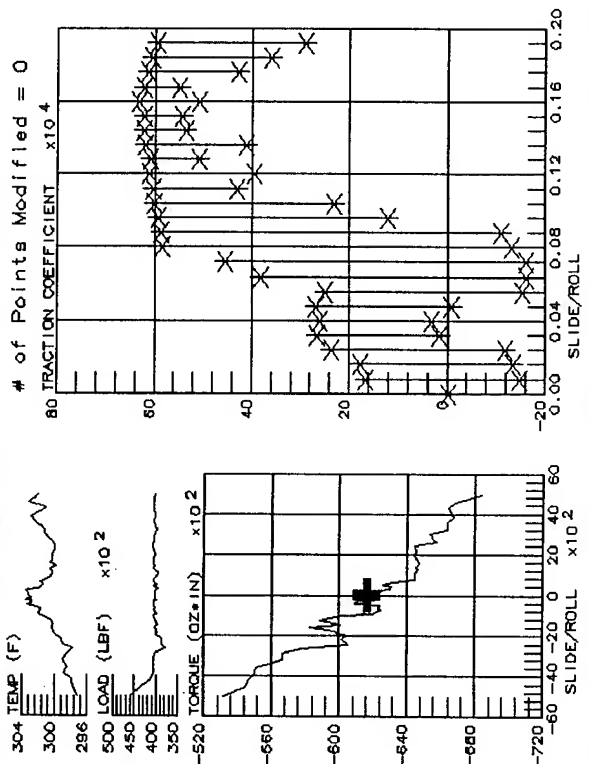


CE 88-177 Demum S-20
300F 51LBF 649RPM #11

FILE: ce3001

#191

of Points Modified = 0

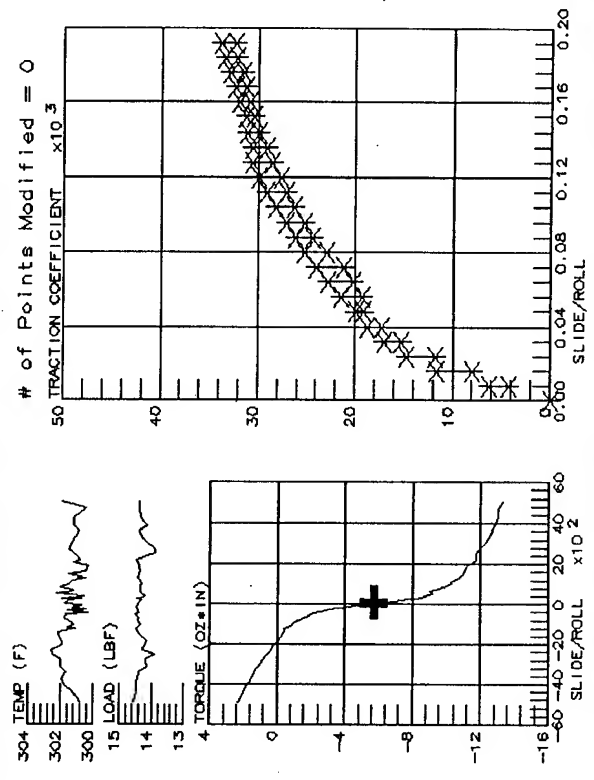


CE 88-177 Demum S-20
300F 15LBF 649RPM #12

FILE: ce3001

#192

of Points Modified = 0



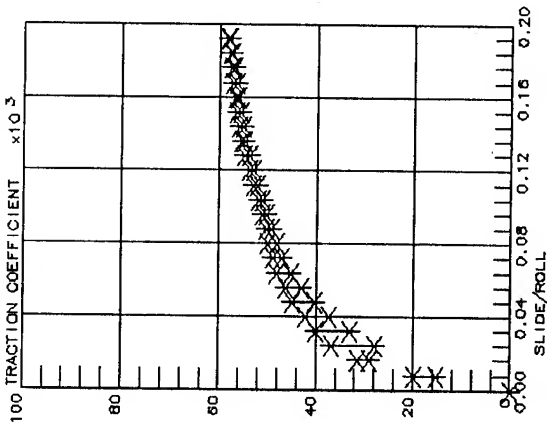
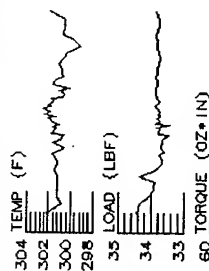
TRACTION DATA

CE 88-177 Demum S-20
300F 34LBF 649RPM #13

FILE: ce3001

#193

of Points Modified = 0

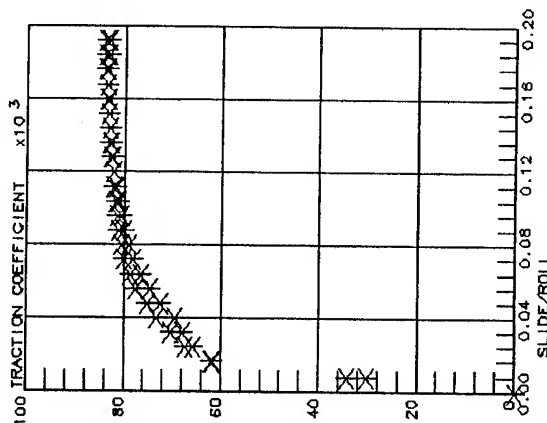
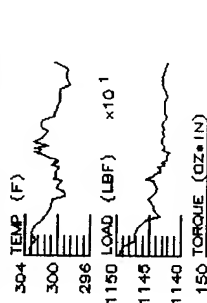


CE 88-177 Demum S-20
300F 115LBF 649RPM #15

FILE: ce3001

#195

of Points Modified = 0

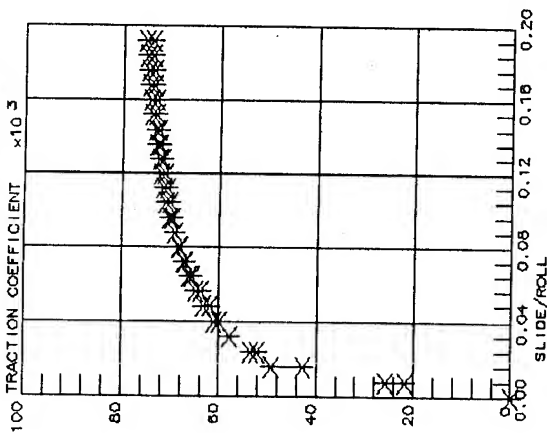


CE 88-177 Demum S-20
300F 87LBF 649RPM #14

FILE: ce3001

#194

of Points Modified = 0

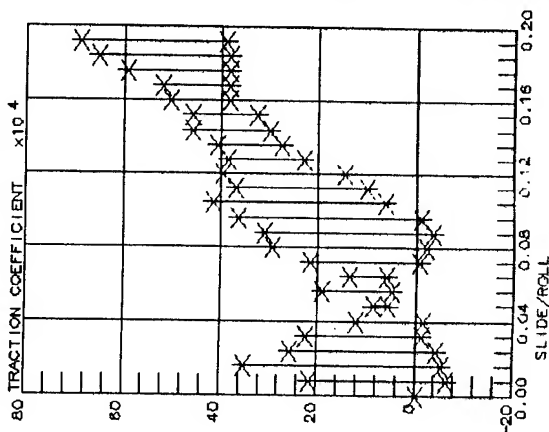
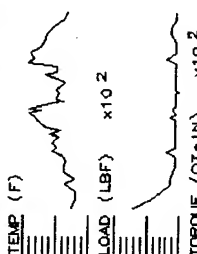


CE 88-177 Demum S-20
300F 51LBF 1260RPM #16

FILE: ce3001

#196

of Points Modified = 1

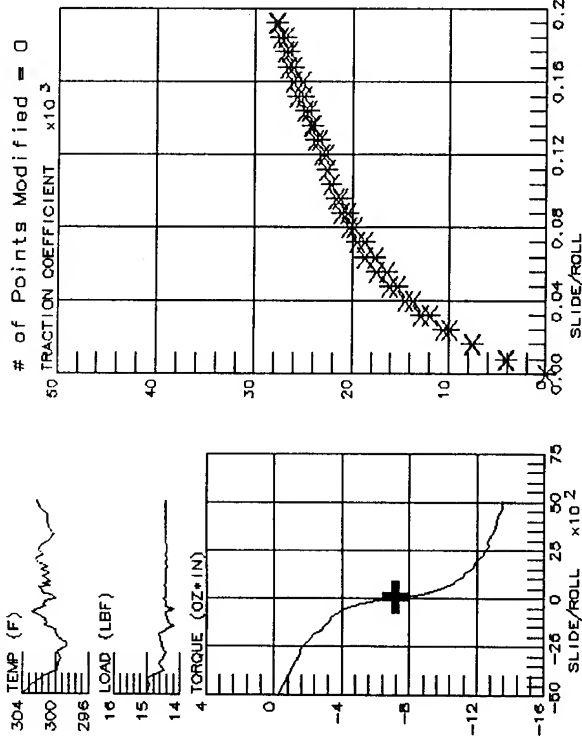


TRACTION DATA

CE 88-177 Demum S-20
300F 15LBF 1260RPM #17

FILE: ce3001

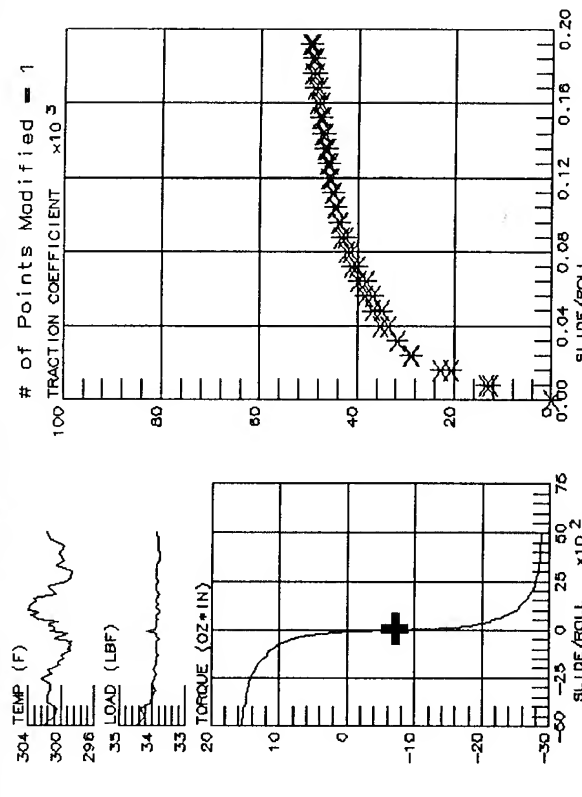
#197



CE 88-177 Demum S-20
300F 34LBF 1260RPM #18

FILE: ce3001

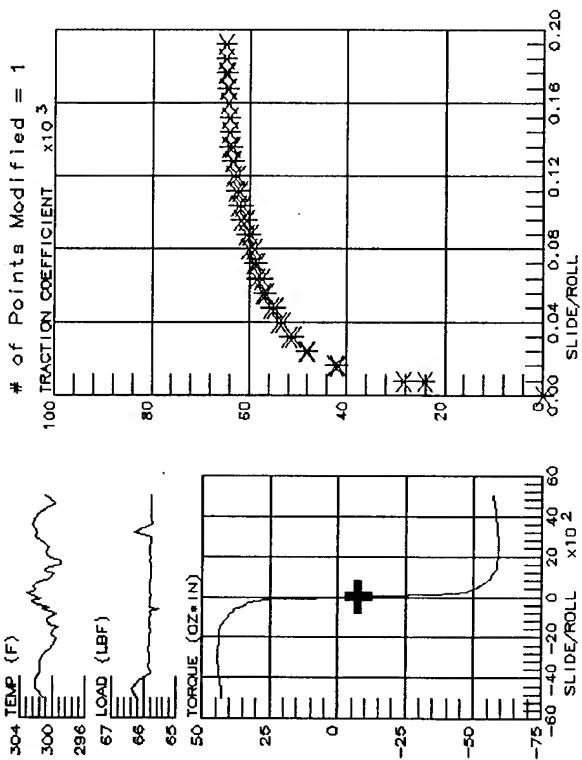
#198



CE 88-177 Demum S-20
300F 67LBF 1260RPM #19

FILE: ce3001

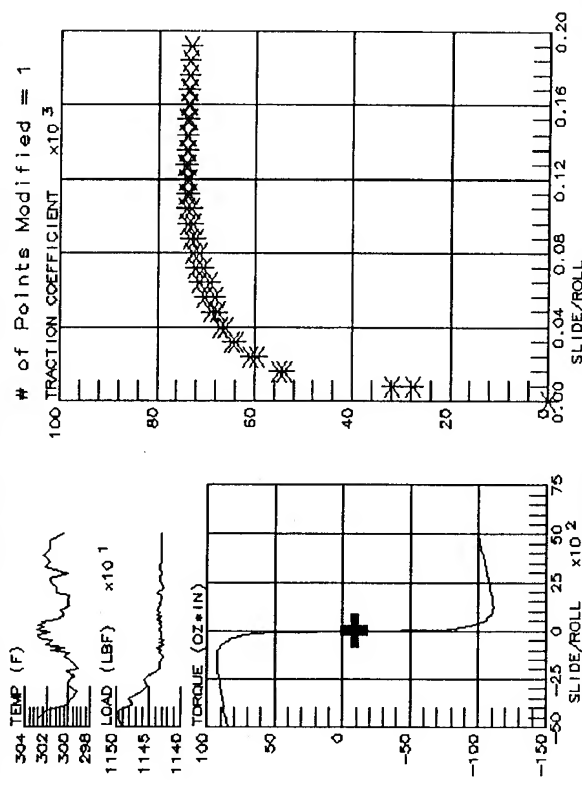
#199



CE 88-177 Demum S-20
300F 115LBF 1260RPM #20

FILE: ce3001

#200



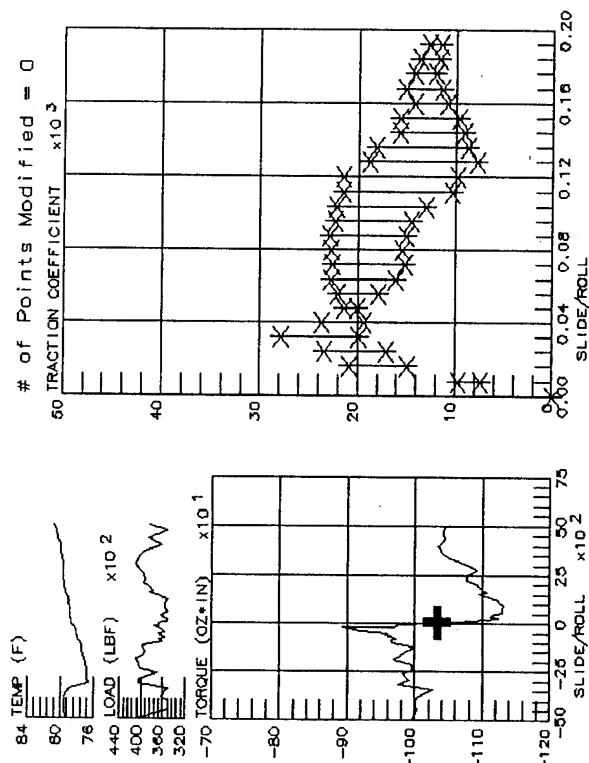
TRACTION DATA

CE 88-177 Demum S-20
80F 5LBF 2559RPM #1

FILE: ce80h

#201

of Points Modified = 0

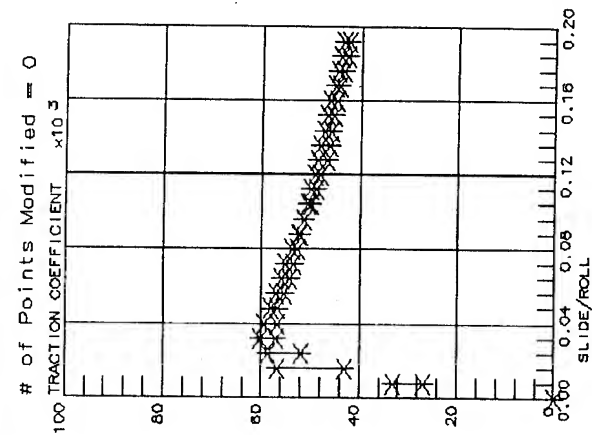


CE 88-177 Demum S-20
80F 15LBF 2559RPM #2

FILE: ce80h

#202

of Points Modified = 0

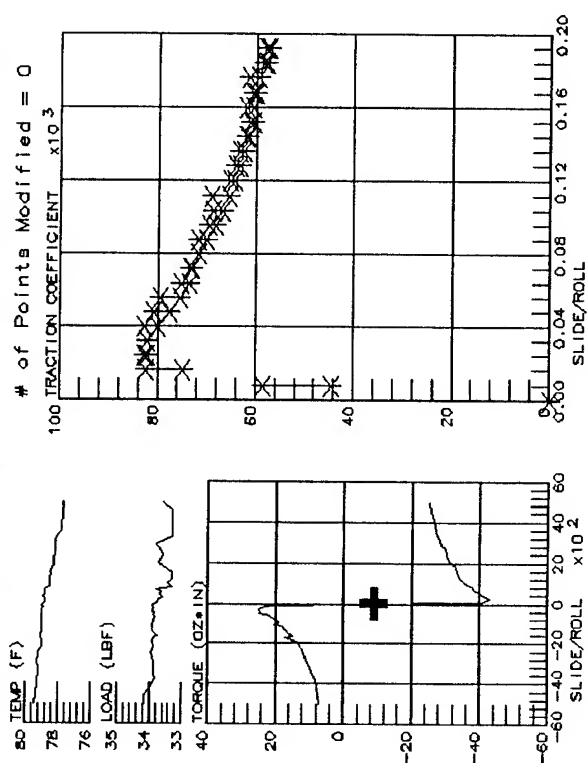


CE 88-177 Demum S-20
80F 34LBF 2559RPM #3

FILE: ce80h

#203

of Points Modified = 0

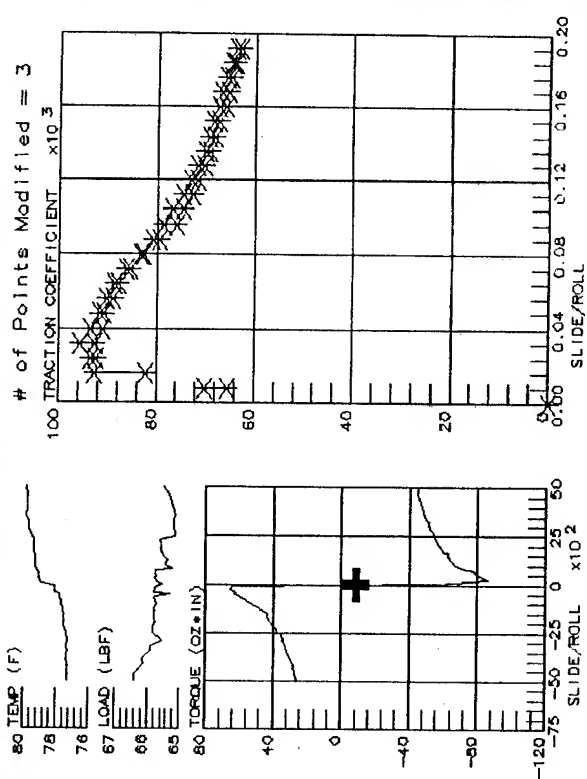


CE 88-177 Demum S-20
80F 67LBF 2559RPM #4

FILE: ce80h

#204

of Points Modified = 3



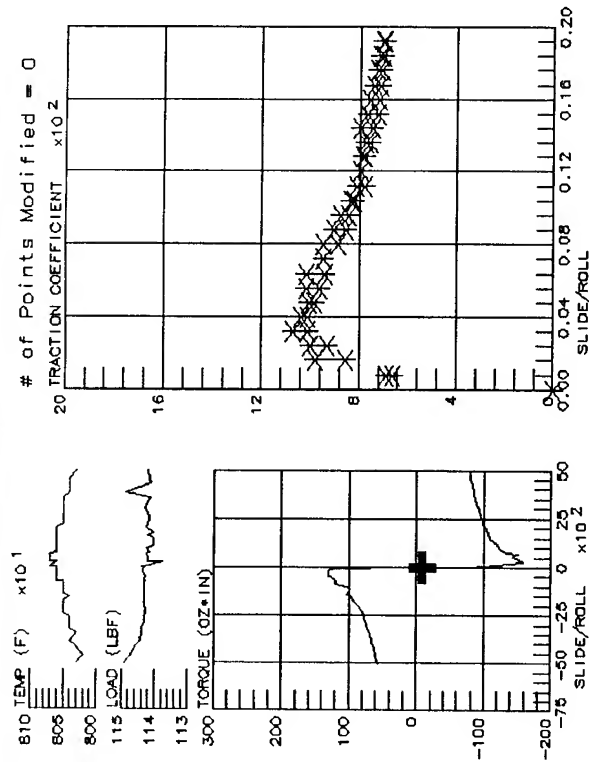
TRACTION DATA

CE 88-177 Demum S-20
80F 115LBF 2569RPM #5

FILE: ce80h

#205

of Points Modified = 0

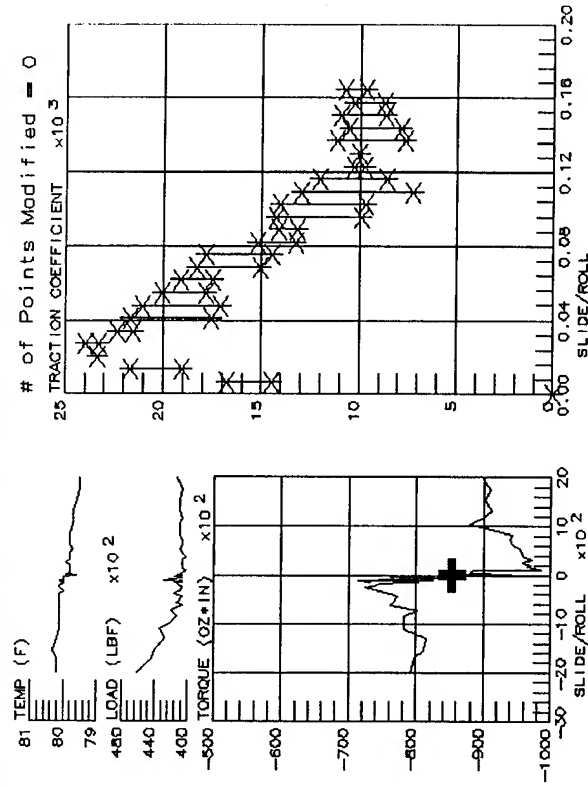


CE 88-177 Demum S-20
80F 5LBF 5080RPM #8

FILE: ce80h

#206

of Points Modified = 0

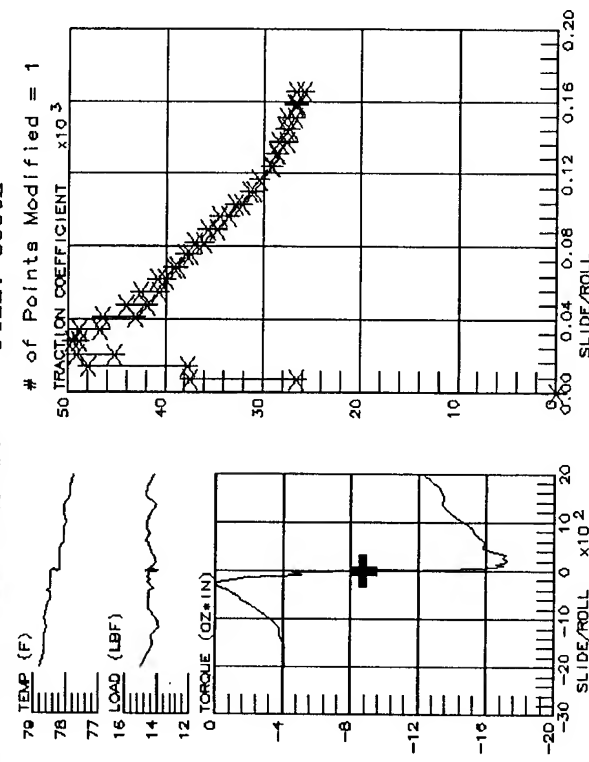


CE 88-177 Demum S-20
80F 15LBF 5080RPM #7

FILE: ce80h

#207

of Points Modified = 1

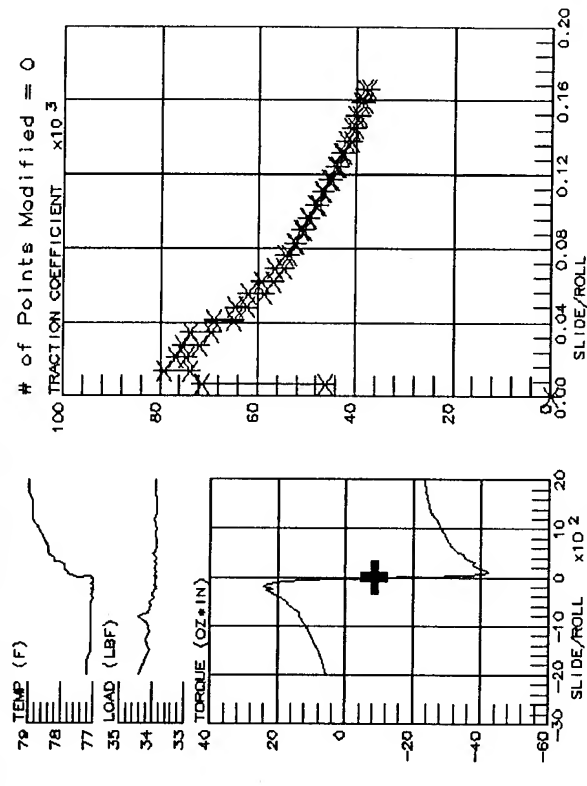


CE 88-177 Demum S-20
80F 34LBF 5080RPM #8

FILE: ce80h

#208

of Points Modified = 0



TRACTION DATA

CE 88-177 Demum S-20
80F 67LBF 5080RPM #9

FILE: ce80h

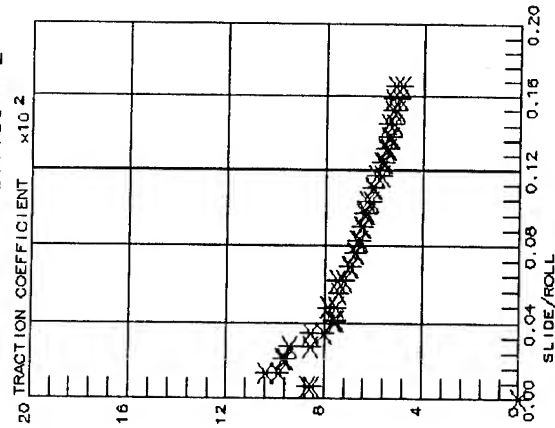
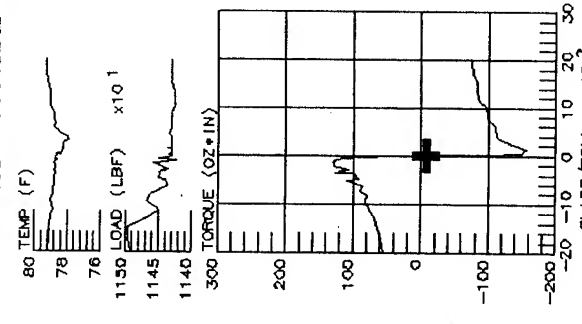
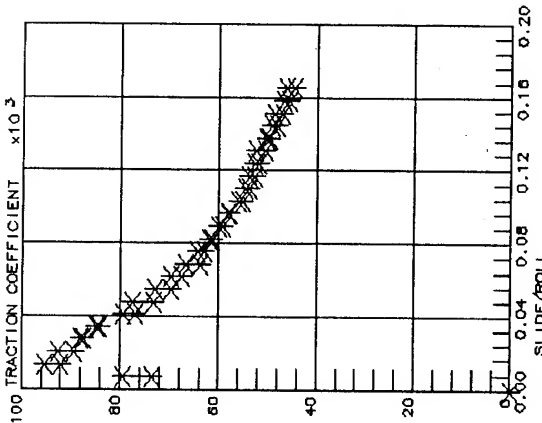
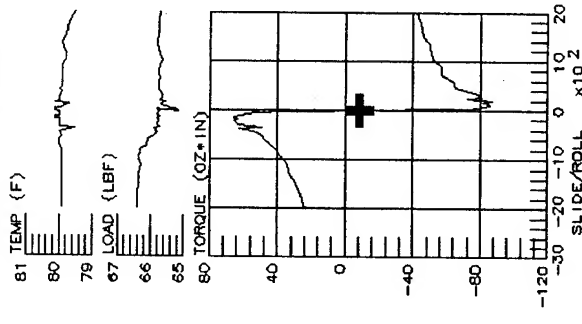
CE 88-177 Demum S-20
80F 115LBF 5080RPM #10

FILE: ce80h

#210

of Points Modified = 0

of Points Modified = 2



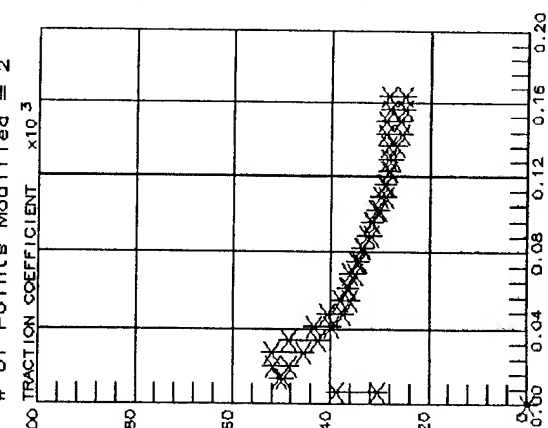
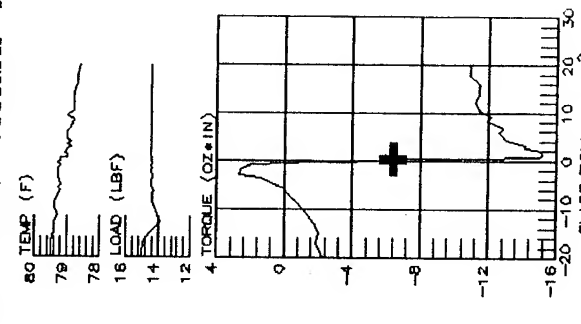
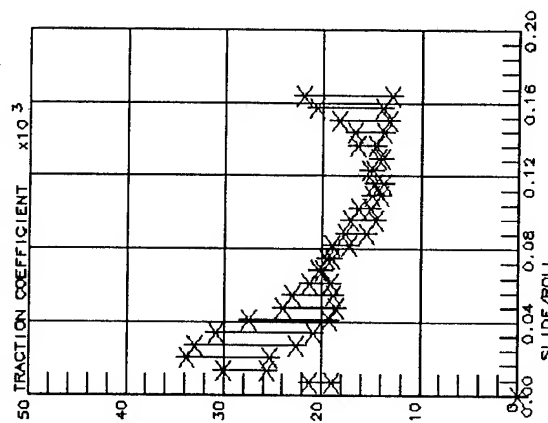
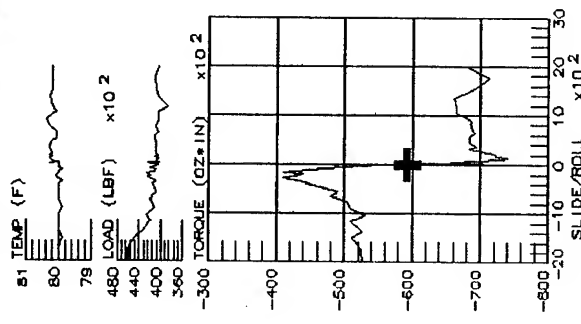
CE 88-177 Demum S-20
80F 51LBF 7639RPM #11

FILE: ce80h

#211

of Points Modified = 0

of Points Modified = 2



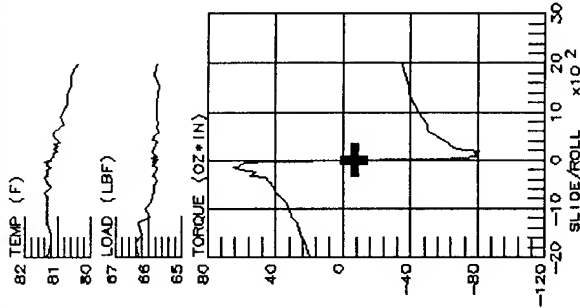
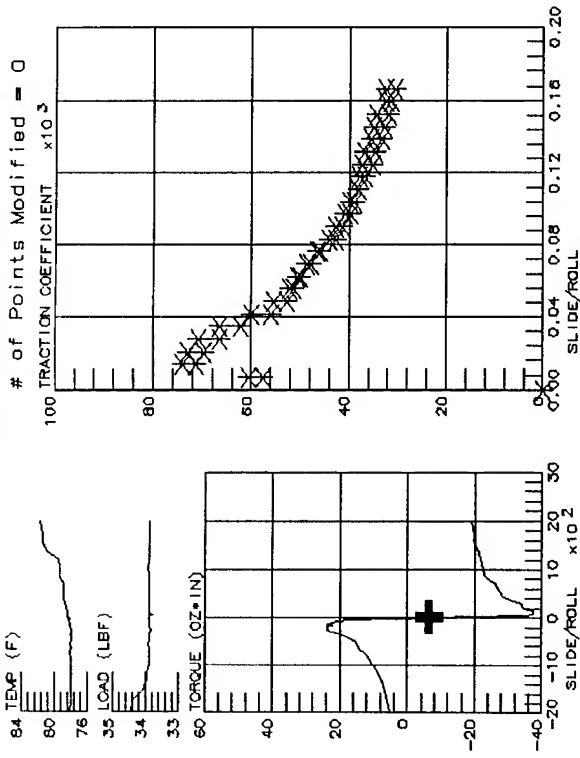
TRACTION DATA

CE 88-177 Demum S-20
80F 34LBF 7639RPM #13

FILE: ce80b

#213

of Points Modified = 0

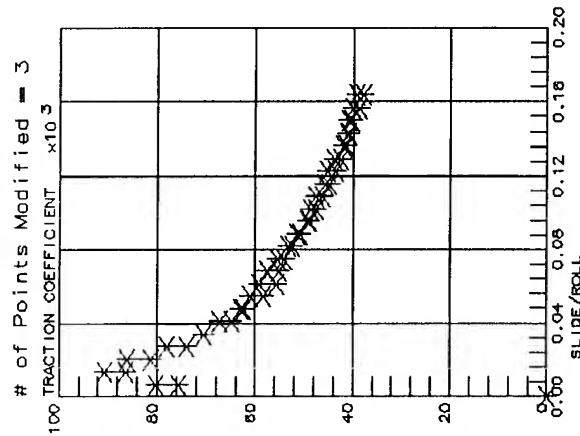
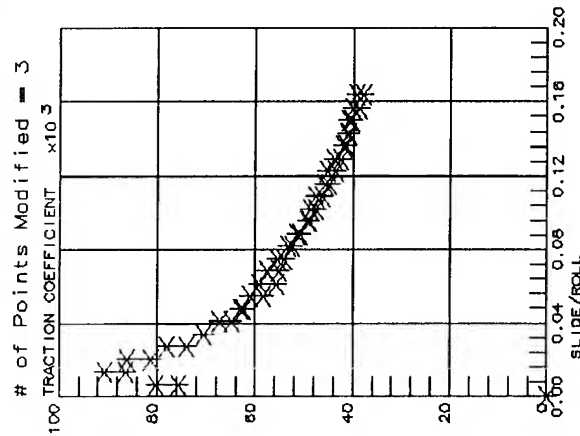


CE 88-177 Demum S-20
80F 67LBF 7639RPM #14

FILE: ce80h

#214

of Points Modified = 3

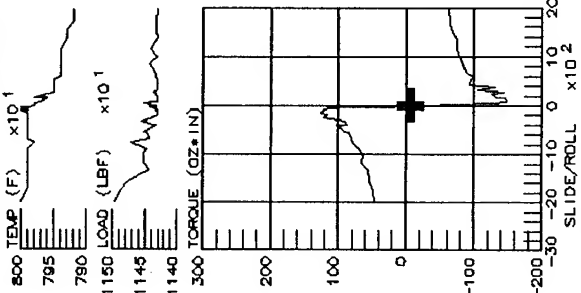
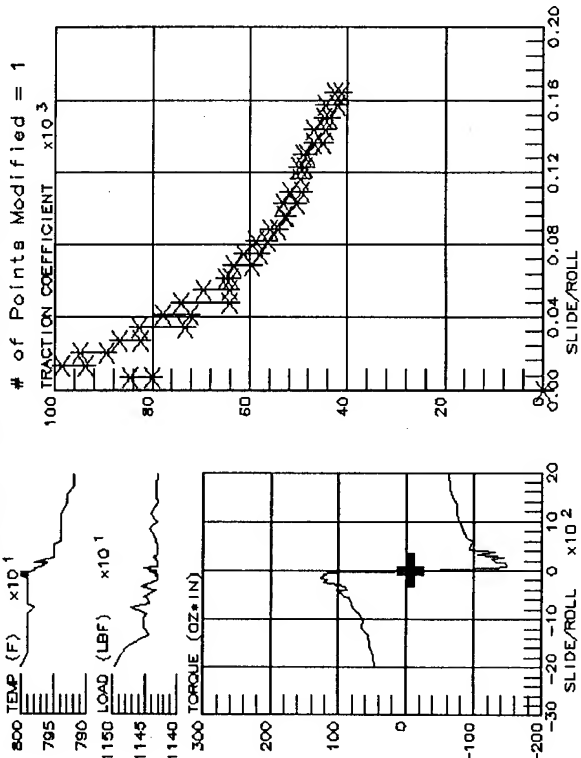


CE 88-177 Demum S-20
80F 115LBF 7639RPM #15

FILE: ce80b

#215

of Points Modified = 1

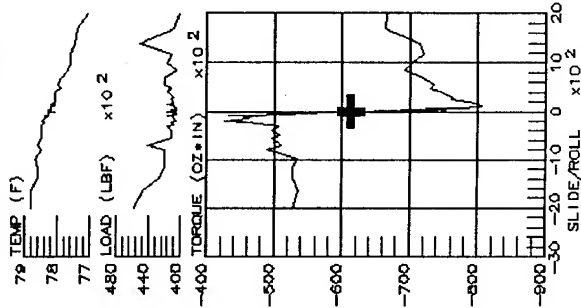
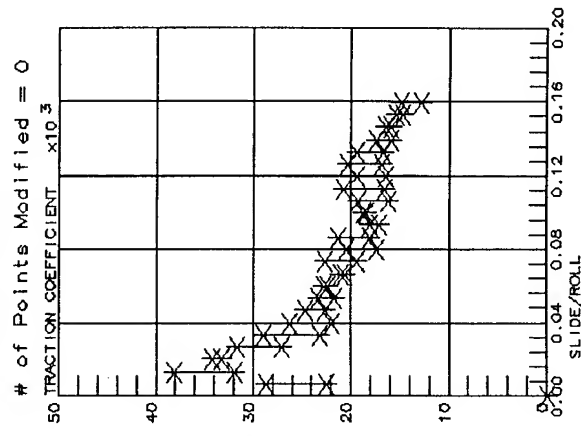


CE 88-177 Demum S-20
80F 51LBF 1019RPM #16

FILE: ce80h

#216

of Points Modified = 0

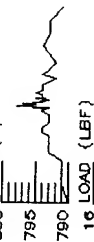


TRACTION DATA

CE 88-177 Demum S-20
80F 15LBF 10198RPM #17
FILE: ce80h

of Points Modified = 2

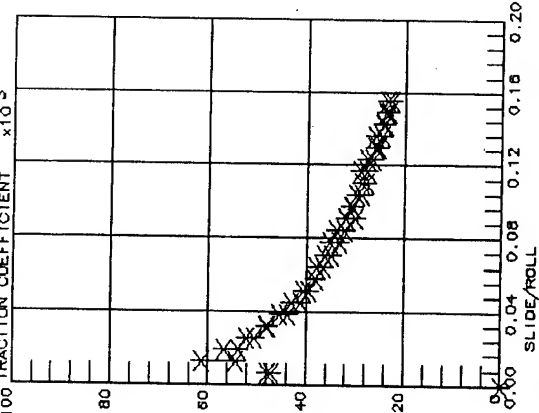
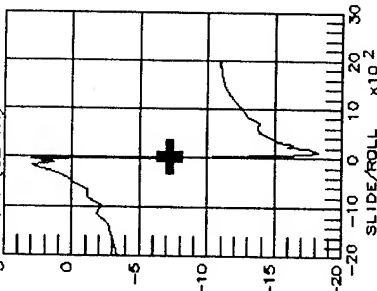
800 TEMP (F) $\times 10^1$



16 LOAD (LBF)



5 TORQUE (OZ-IN)



CE 88-177 Demum S-20
80F 34LBF 10198RPM #18
FILE: ce80h

of Points Modified = 0

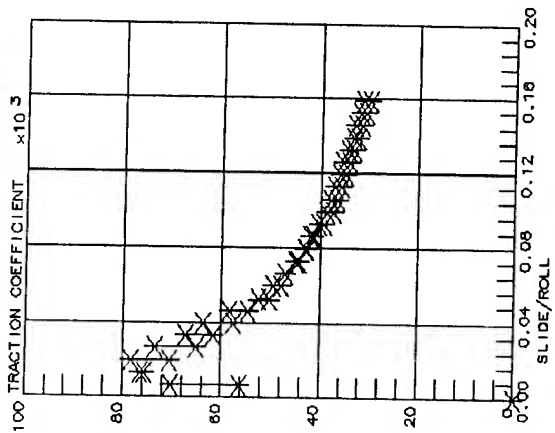
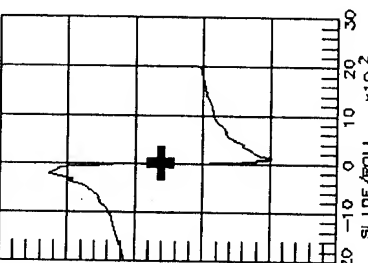
82 TEMP (F)



35 LOAD (LBF)



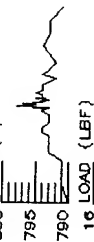
40 TORQUE (OZ-IN)



CE 88-177 Demum S-20
80F 67LBF 10198RPM #19
FILE: ce80h

of Points Modified = 1

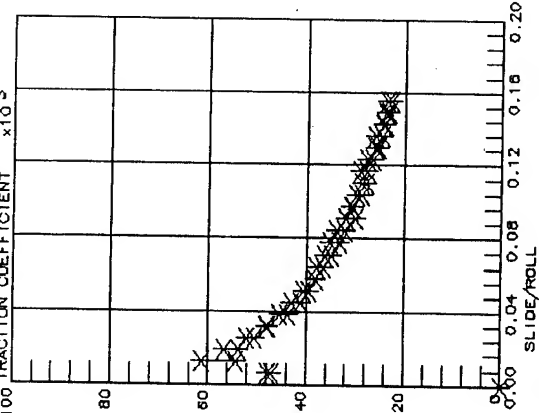
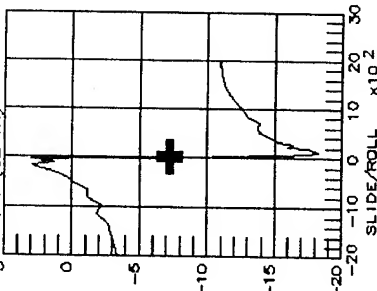
810 TEMP (F) $\times 10^1$



67 LOAD (LBF)



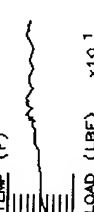
120 TORQUE (OZ-IN)



CE 88-177 Demum S-20
80F 115LBF 10198RPM #20
FILE: ce80h

of Points Modified = 1

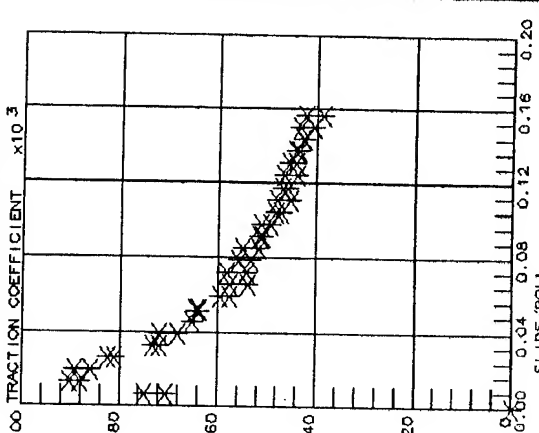
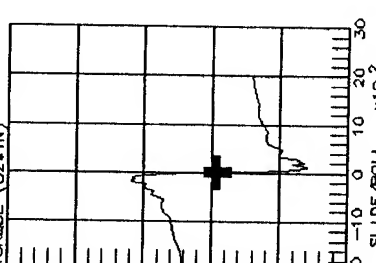
81 TEMP (F)



1150 LOAD (LBF) $\times 10^1$



300 TORQUE (OZ-IN)



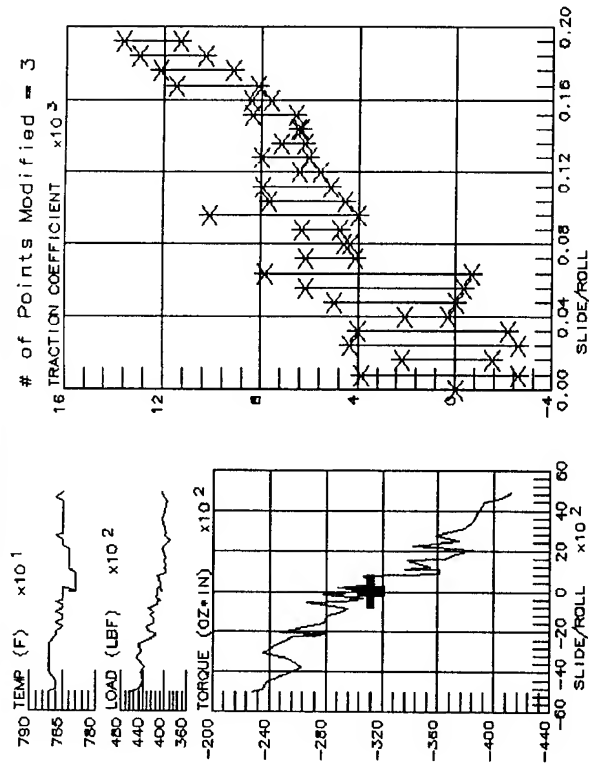
TRACTION DATA

CE 88-177 Demum S-20
80F 51LBF 152RPM #1

FILE: ce801

#221

of Points Modified = 3

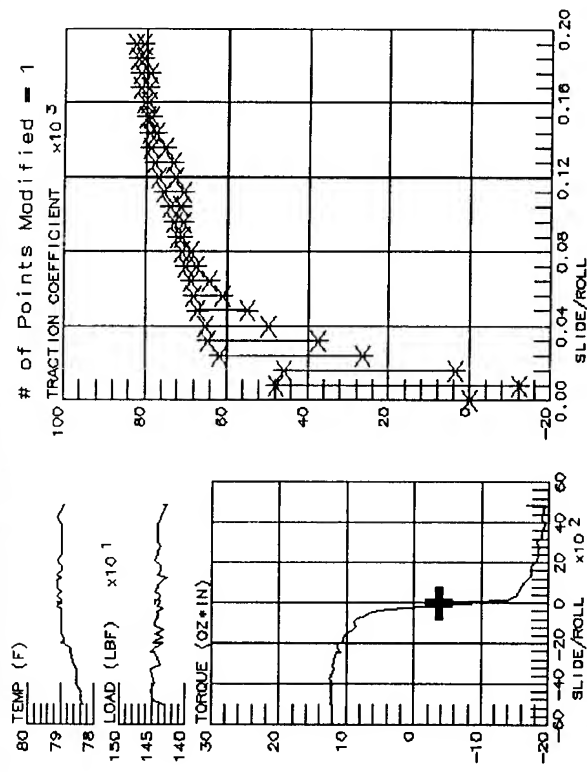


CE 88-177 Demum S-20
80F 15LBF 152RPM #2

FILE: ce801

#222

of Points Modified = 1

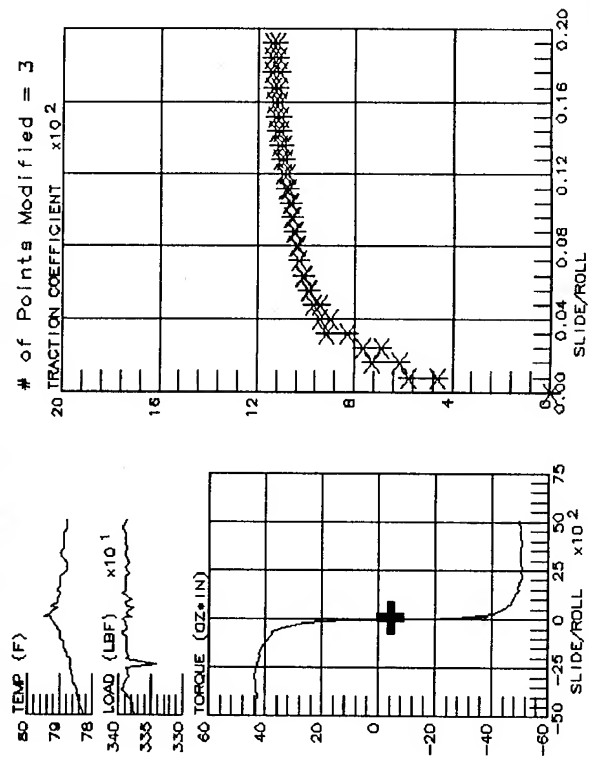


CE 88-177 Demum S-20
80F 34LBF 152RPM #3

FILE: ce801

#223

of Points Modified = 3

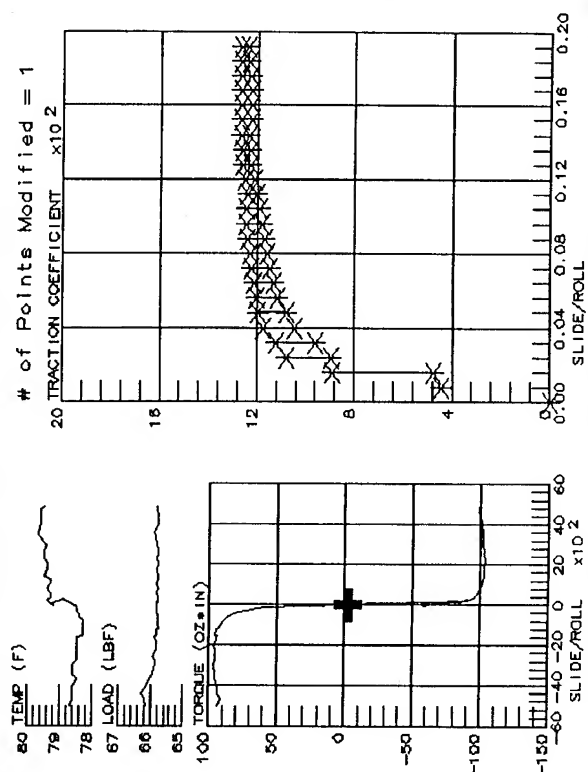


CE 88-177 Demum S-20
80F 67LBF 152RPM #4

FILE: ce801

#224

of Points Modified = 1



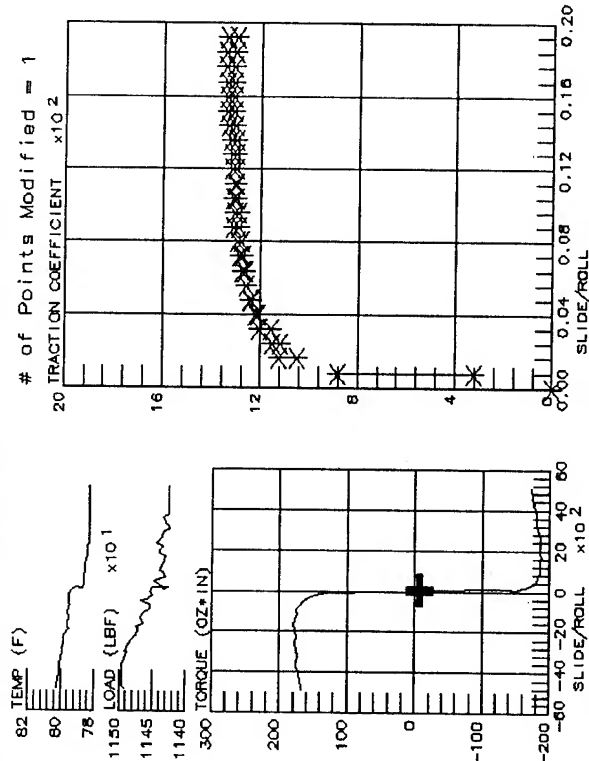
TRACTION DATA

CE 88-177 Demum S-20
80F 115LBF 152RPM #5

FILE: ce801

#225

of Points Modified = 1

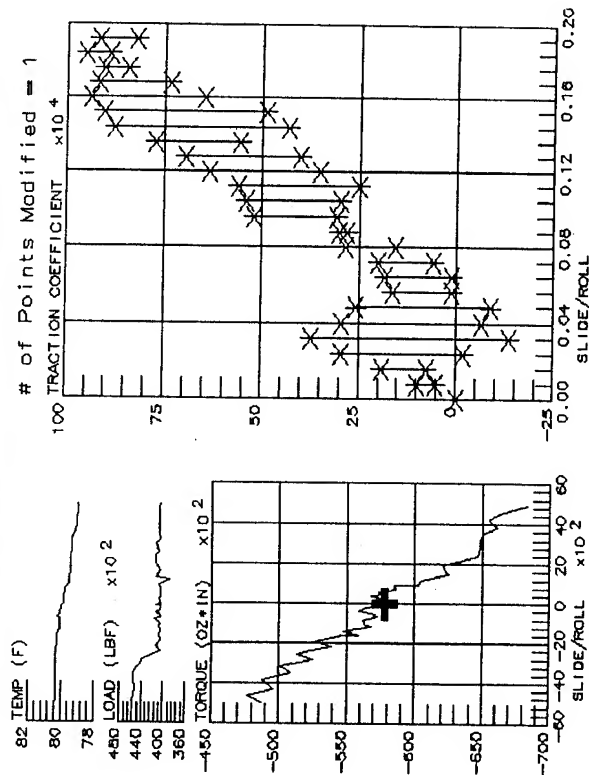


CE 88-177 Demum S-20
80F 5LBF 305RPM #6

FILE: ce801

#226

of Points Modified = 1

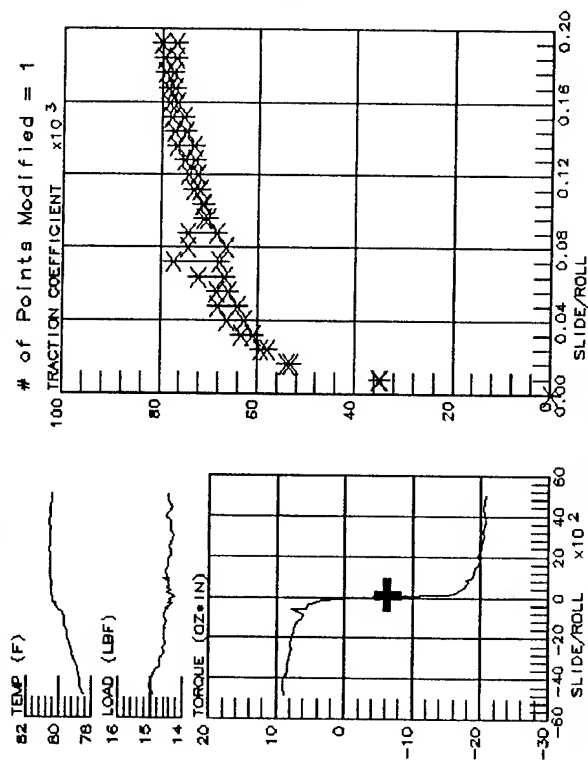


CE 88-177 Demum S-20
80F 15LBF 305RPM #7

FILE: ce801

#227

of Points Modified = 1

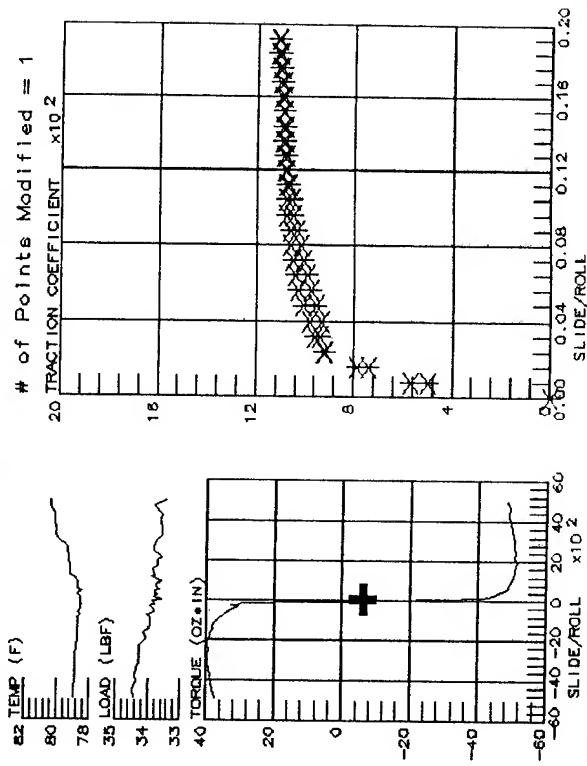


CE 88-177 Demum S-20
80F 34LBF 305RPM #8

FILE: ce801

#228

of Points Modified = 1



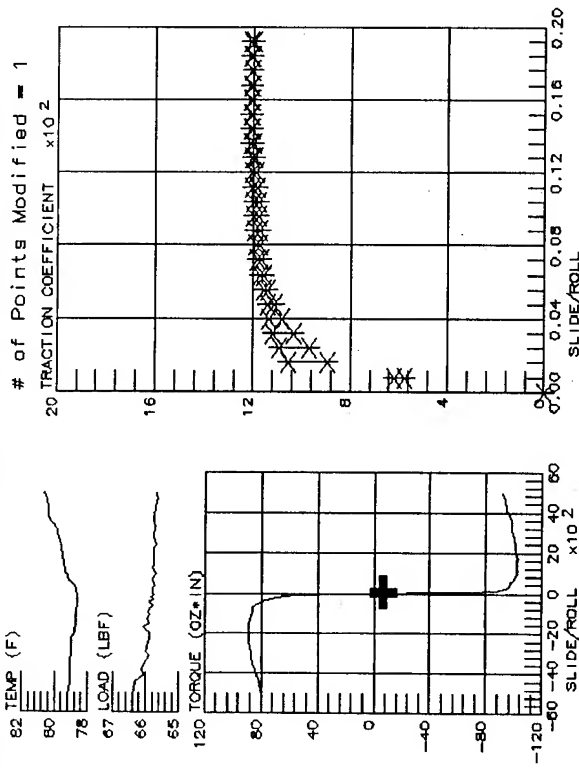
TRACTION DATA

CE 88-177 Demum S-20
80F 67LBF 305RPM #9

FILE: ce801

#229

of Points Modified = 1

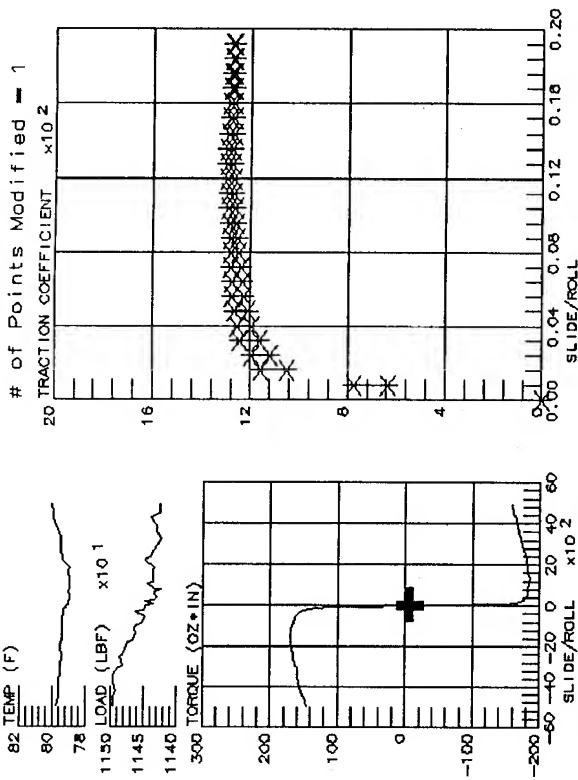


CE 88-177 Demum S-20
80F 115LBF 305RPM #10

FILE: ce801

#230

of Points Modified = 1

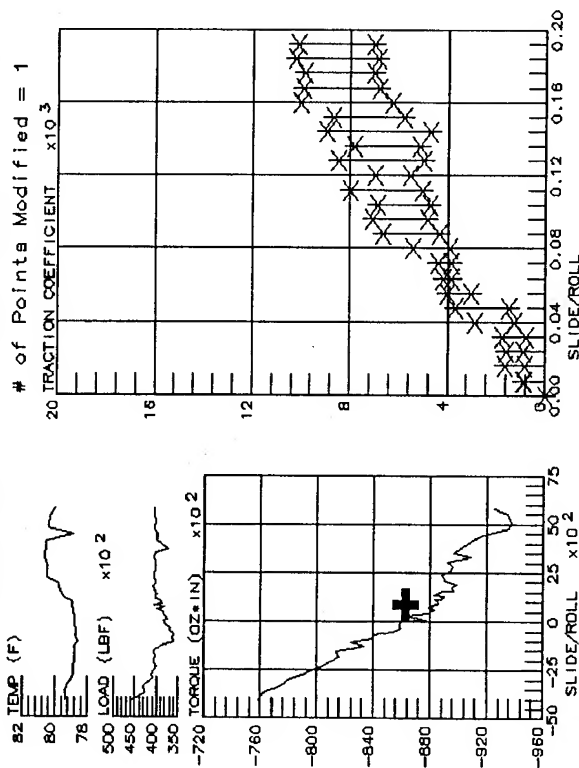


CE 88-177 Demum S-20
80F 51LBF 649RPM #11

FILE: ce801

#231

of Points Modified = 1

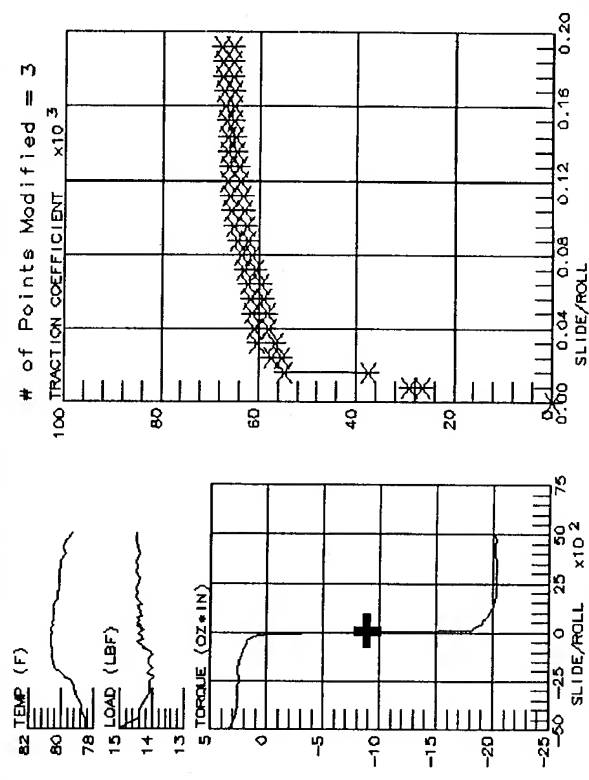


CE 88-177 Demum S-20
80F 15LBF 649RPM #12

FILE: ce801

#232

of Points Modified = 3



TRACTION DATA

CE 88-177 Demum S-20
80F 34LBF 649RPM #13

FILE: ce801

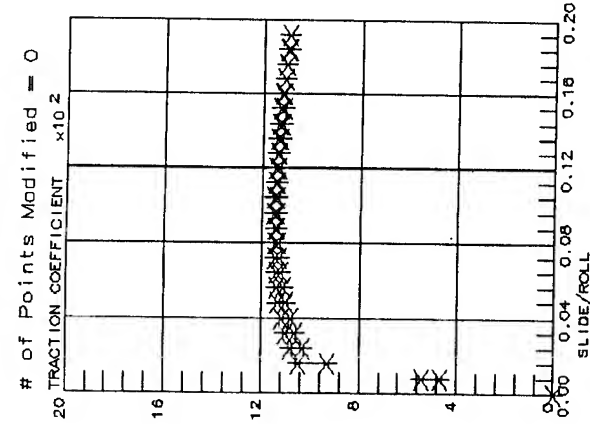
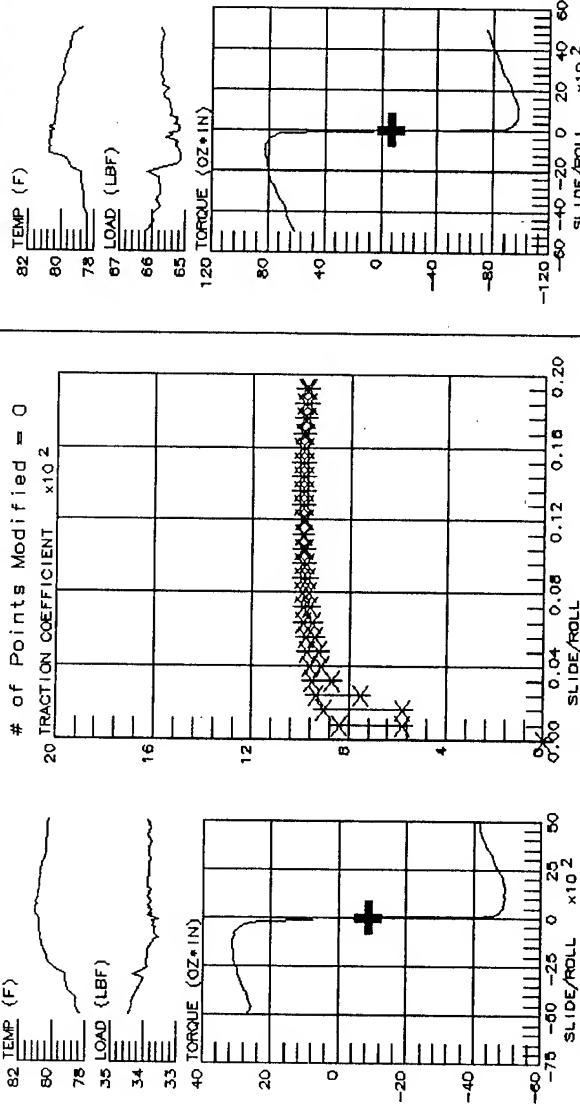
CE 88-177 Demum S-20
80F 67LBF 649RPM #14

FILE: ce801

#234

of Points Modified = 0

of Points Modified = 0



CE 88-177 Demum S-20
80F 115LBF 649RPM #15

FILE: ce801

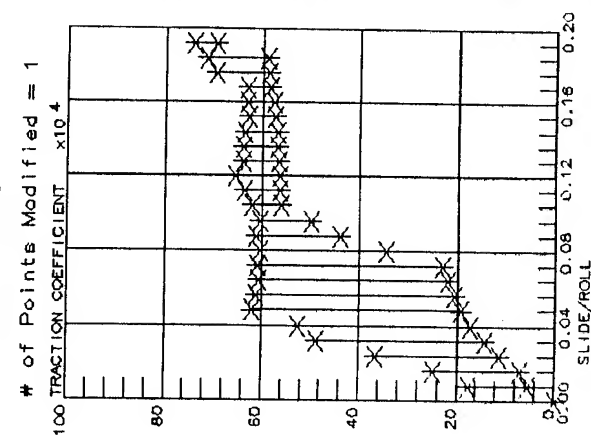
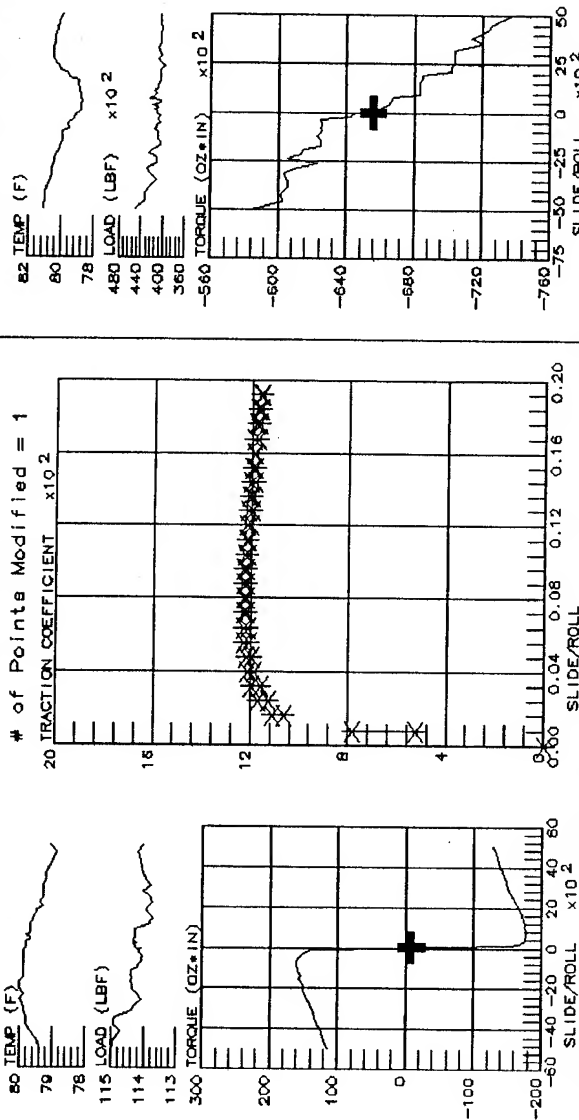
CE 88-177 Demum S-20
80F 51LBF 1260RPM #16

FILE: ce801

#236

of Points Modified = 1

of Points Modified = 1



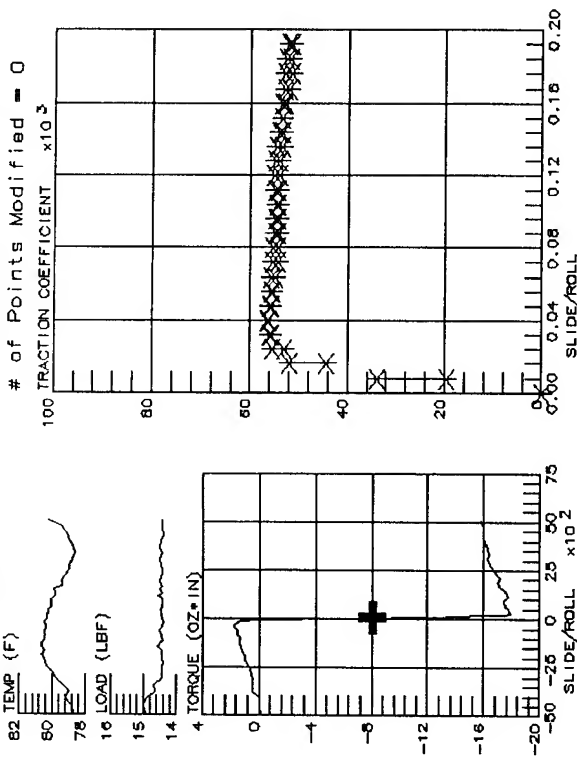
TRACTION DATA

CE 88-177 Datum S-20
80F 15LBF 1260RPM #17

FILE: ce801

#237

of Points Modified = 0

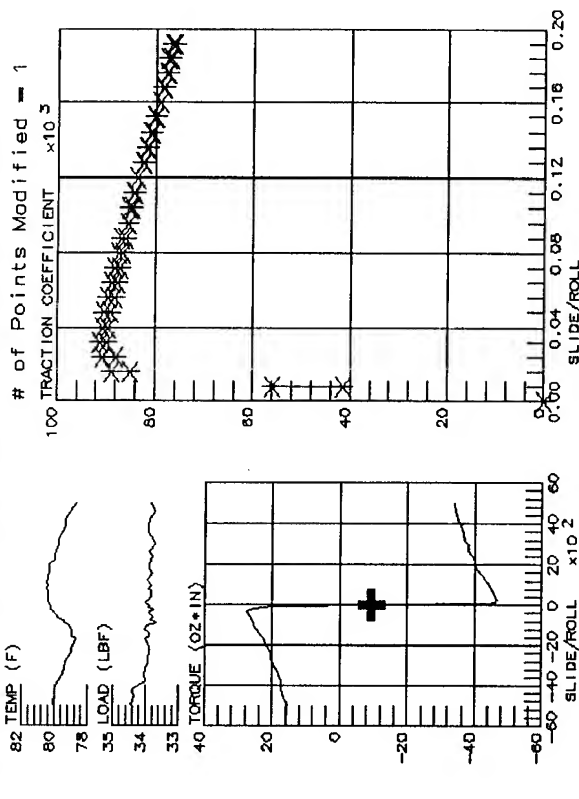


CE 88-177 Datum S-20
80F 34LBF 1260RPM #18

FILE: ce801

#238

of Points Modified = 1

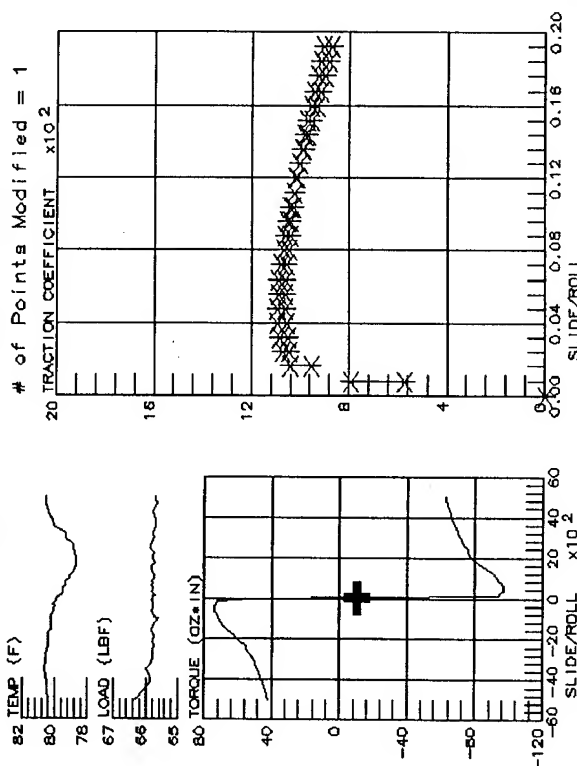


CE 88-177 Datum S-20
80F 67LBF 1260RPM #19

FILE: ce801

#239

of Points Modified = 1

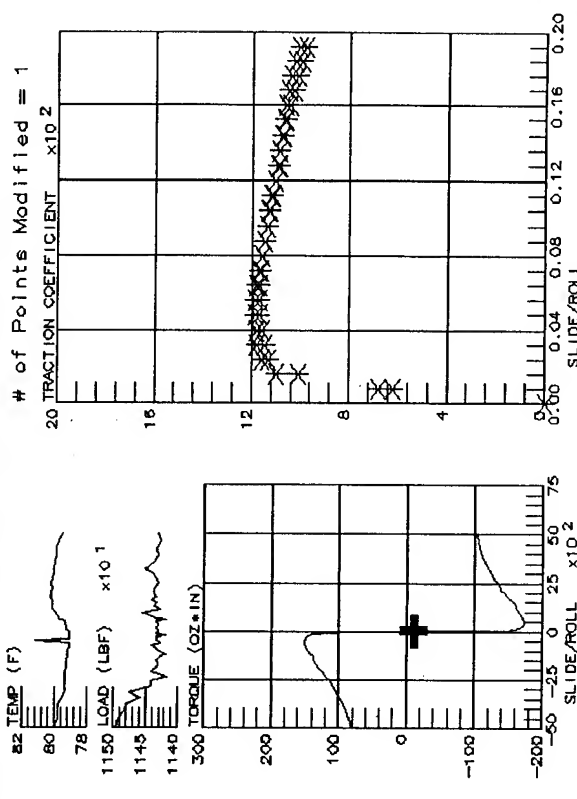


CE 88-177 Datum S-20
80F 115LBF 1260RPM #20

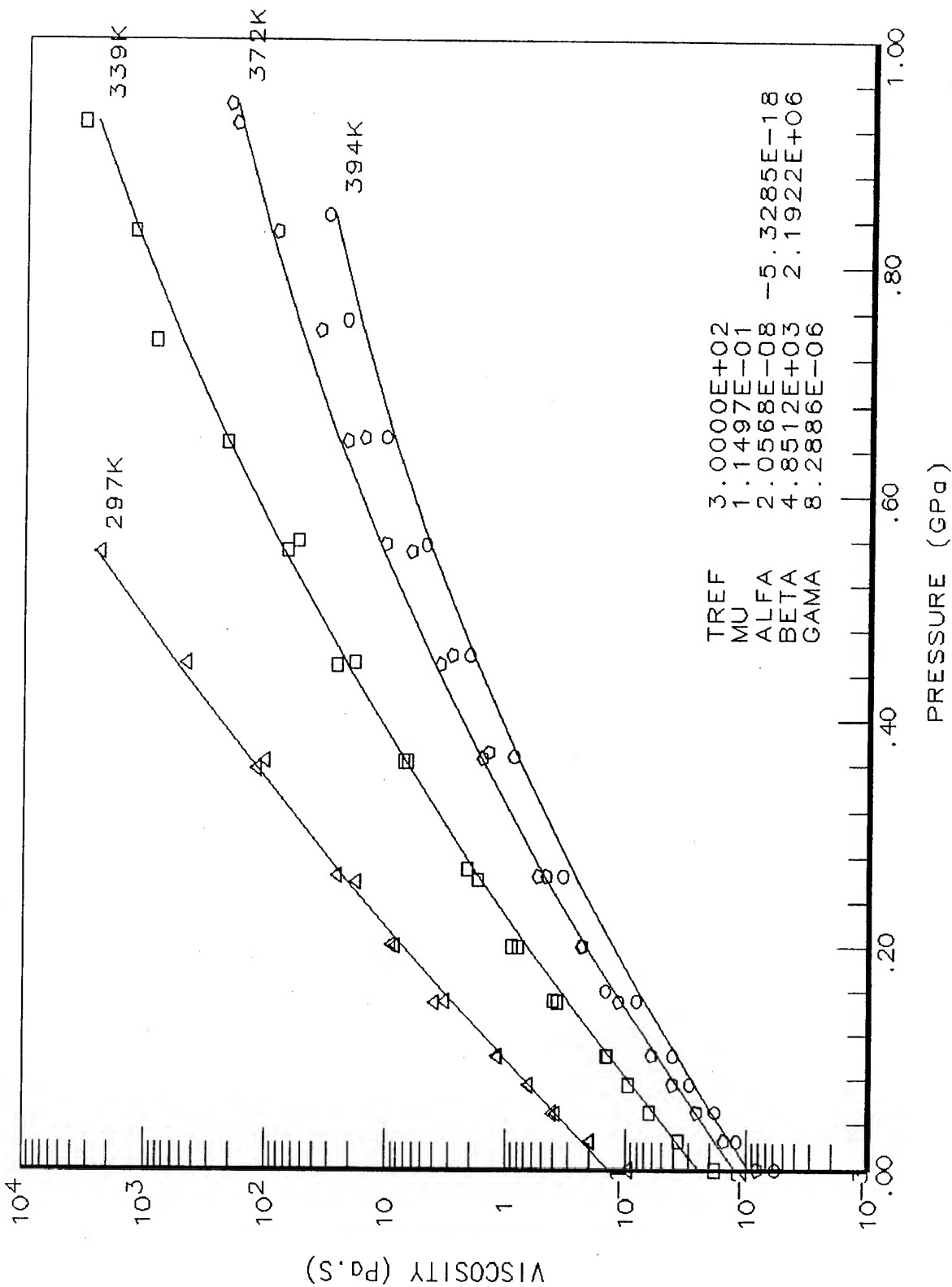
FILE: ce801

#240

of Points Modified = 1



CE 88-177 Demnum S-20 Viscosity Model Type 2

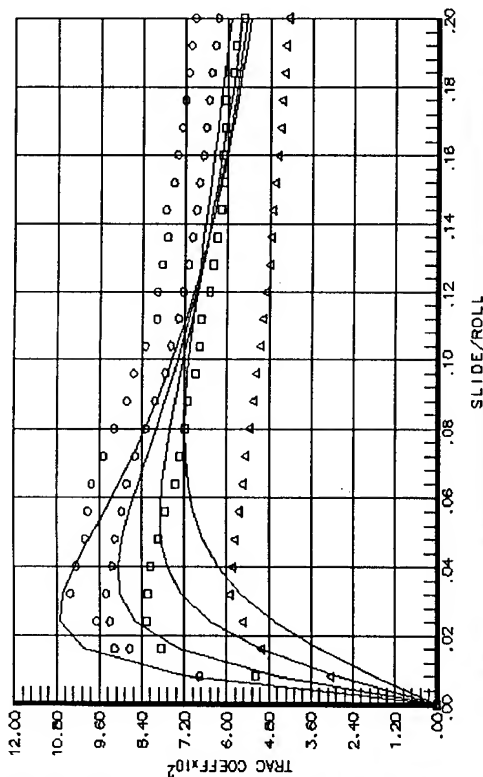


CE 88-177 Demnum S-20

NEWTONIAN MODEL TYPE 1

Model	63N	150N	294N	508N
997MPa	5.10M/S	300K	#202	5.413E+01
1327MPa	5.10M/S	300K	#203	5.413E+01
1654MPa	5.10M/S	300K	#204	5.413E+01
1988MPa	5.10M/S	300K	#205	5.413E+01

ALFA* 2.500E-09
BETA* 3.318E-02

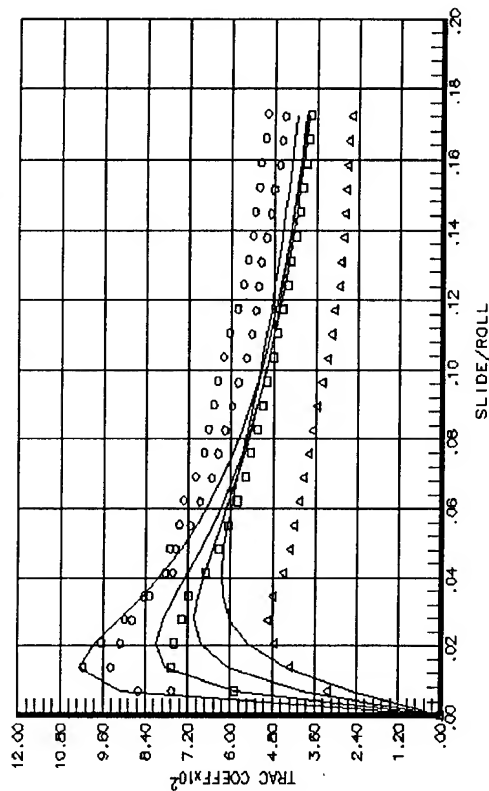


CE 88-177 Demnum S-20

NEWTONIAN MODEL TYPE 1

Model	63N	150N	294N	508N
997MPa	10.13M/S	300K	#207	4.885E+01
1327MPa	10.13M/S	300K	#208	4.885E+01
1654MPa	10.13M/S	300K	#209	4.885E+01
1988MPa	10.13M/S	300K	#210	4.885E+01

ALFA* 2.500E-09
BETA* 3.488E-02

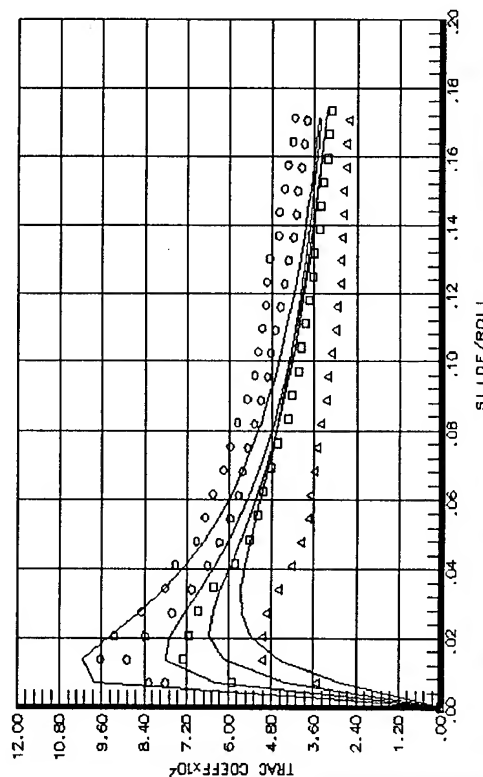


CE 88-177 Demnum S-20

NEWTONIAN MODEL TYPE 1

Model	63N	150N	294N	508N
996MPa	15.24M/S	300K	#212	3.509E+01
1326MPa	15.24M/S	300K	#213	3.509E+01
1654MPa	15.24M/S	300K	#214	3.509E+01
1988MPa	15.24M/S	300K	#215	3.509E+01

ALFA* 2.500E-09
BETA* 3.507E-02

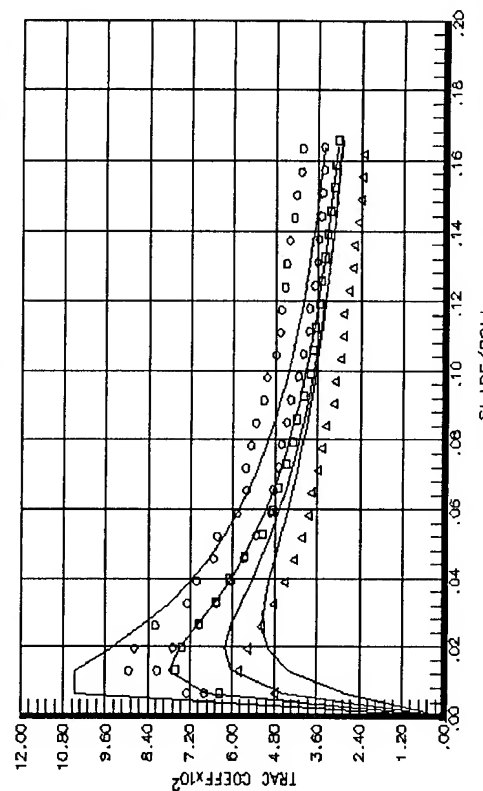


CE 88-177 Demnum S-20

NEWTONIAN MODEL TYPE 1

Model	63N	150N	294N	508N
1000MPa	20.34M/S	300K	#217	2.520E+01
1327MPa	20.34M/S	300K	#218	2.520E+01
1654MPa	20.34M/S	300K	#219	2.520E+01
1988MPa	20.34M/S	300K	#220	2.520E+01

ALFA* 2.500E-09
BETA* 3.788E-02

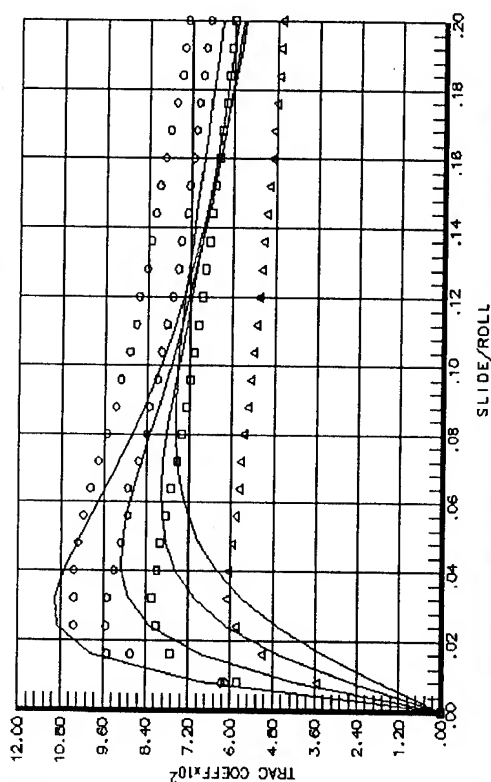


CE 88-177 Denumum S-20

NEWTONIAN MODEL

TYPE 1

NEWTONIAN MODEL	63N	150N	294N	508N	995MPA	1325MPA	1652MPA	1988MPA	ALFA*	BETA*
	5.10M/S	5.10M/S	5.10M/S	5.10M/S	3.854E+01	3.854E+01	3.854E+01	3.854E+01	2.500E-09	3.785E-02
	5.10M/S	5.10M/S	5.10M/S	5.10M/S	3.854E+01	3.854E+01	3.854E+01	3.854E+01	2.500E-09	3.785E-02
	5.10M/S	5.10M/S	5.10M/S	5.10M/S	3.854E+01	3.854E+01	3.854E+01	3.854E+01	2.500E-09	3.785E-02

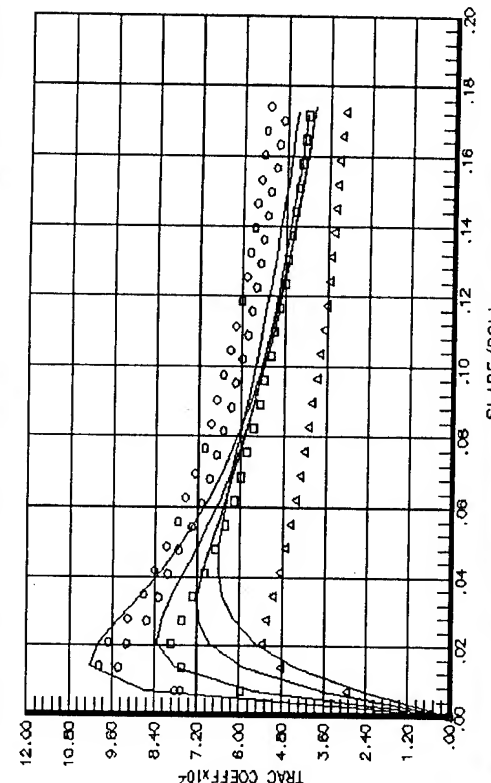


CE 88-177 Denumum S-20

NEWTONIAN MODEL

TYPE 1

NEWTONIAN MODEL	63N	150N	294N	508N	995MPA	1325MPA	1652MPA	1988MPA	ALFA*	BETA*
	10.13M/S	10.13M/S	10.13M/S	10.13M/S	3.989E+01	3.989E+01	3.989E+01	3.989E+01	2.500E-08	3.521E-02
	10.13M/S	10.13M/S	10.13M/S	10.13M/S	3.989E+01	3.989E+01	3.989E+01	3.989E+01	2.500E-08	3.521E-02
	10.13M/S	10.13M/S	10.13M/S	10.13M/S	3.989E+01	3.989E+01	3.989E+01	3.989E+01	2.500E-08	3.521E-02

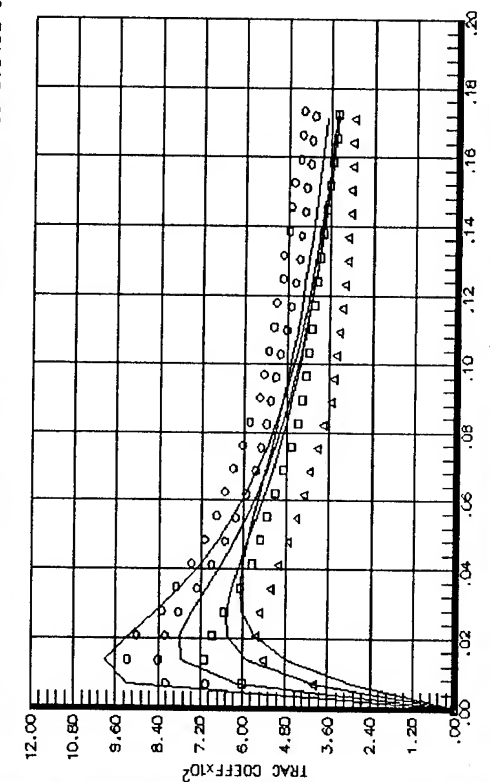


CE 88-177 Denumum S-20

NEWTONIAN MODEL

TYPE 1

NEWTONIAN MODEL	63N	150N	294N	508N	995MPA	1325MPA	1652MPA	1988MPA	ALFA*	BETA*
	15.24M/S	15.24M/S	15.24M/S	15.24M/S	3.105E+01	3.105E+01	3.105E+01	3.105E+01	2.500E-09	3.345E-02
	15.24M/S	15.24M/S	15.24M/S	15.24M/S	3.105E+01	3.105E+01	3.105E+01	3.105E+01	2.500E-09	3.345E-02
	15.24M/S	15.24M/S	15.24M/S	15.24M/S	3.105E+01	3.105E+01	3.105E+01	3.105E+01	2.500E-09	3.345E-02

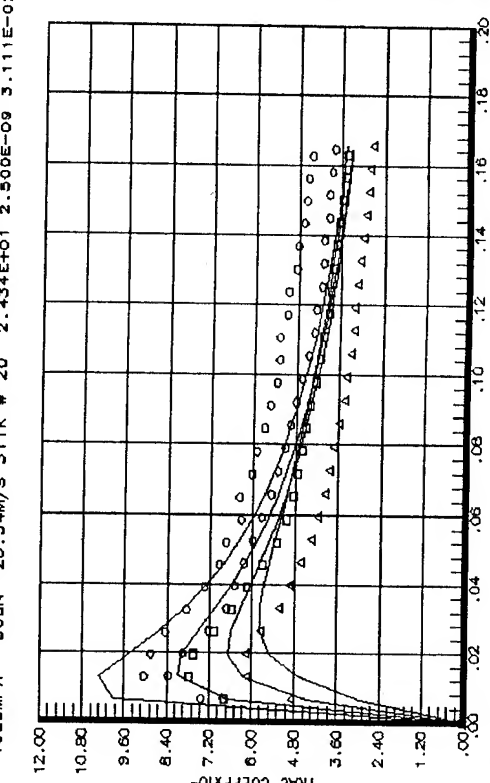


CE 88-177 Denumum S-20

NEWTONIAN MODEL

TYPE 1

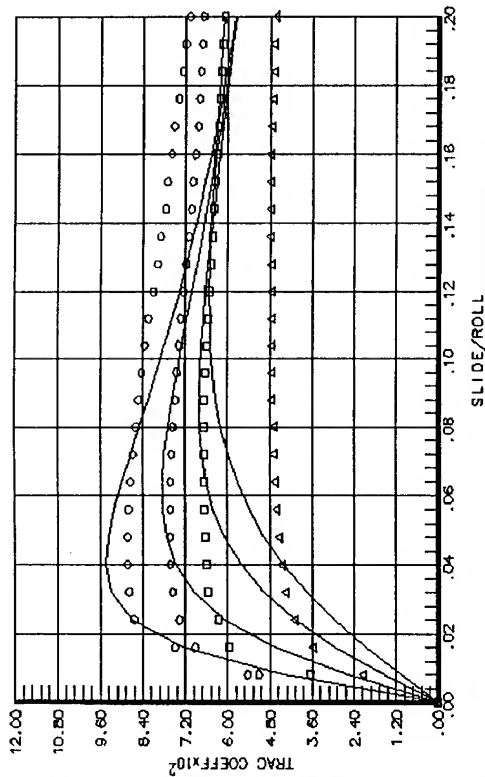
NEWTONIAN MODEL	63N	150N	294N	508N	995MPA	1325MPA	1652MPA	1988MPA	ALFA*	BETA*
	20.34M/S	20.34M/S	20.34M/S	20.34M/S	2.434E+01	2.434E+01	2.434E+01	2.434E+01	2.500E-09	3.111E-02
	20.34M/S	20.34M/S	20.34M/S	20.34M/S	2.434E+01	2.434E+01	2.434E+01	2.434E+01	2.500E-09	3.111E-02
	20.34M/S	20.34M/S	20.34M/S	20.34M/S	2.434E+01	2.434E+01	2.434E+01	2.434E+01	2.500E-09	3.111E-02



CE 88-177 Demnum S-20

NEWTONIAN MODEL TYPE 1

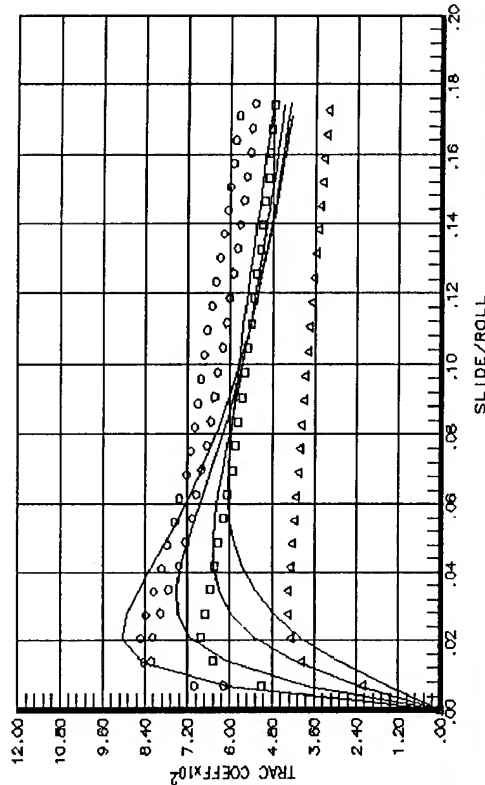
ce12.dat
 63N 5.10M/S 339K # 42 1.148E+01 1.148E+01 2.500E-09 5.843E-02 BETA*
 150N 5.10M/S 339K # 43 1.148E+01 1.148E+01 2.500E-09 5.843E-02 ALFA*
 294N 5.10M/S 339K # 44 1.148E+01 1.148E+01 2.500E-09 5.843E-02
 508N 5.10M/S 339K # 45 1.148E+01 1.148E+01 2.500E-09 5.843E-02



CE 88-177 Demnum S-20

NEWTONIAN MODEL TYPE 1

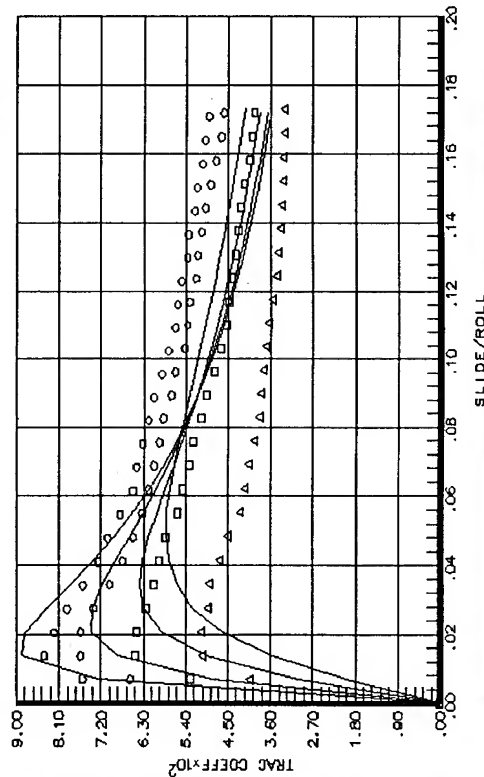
ce13.dat
 63N 10.13M/S 339K # 47 1.390E+01 1.390E+01 2.500E-09 4.386E-02 BETA*
 150N 10.13M/S 339K # 48 1.390E+01 1.390E+01 2.500E-09 4.386E-02 ALFA*
 294N 10.13M/S 339K # 49 1.390E+01 1.390E+01 2.500E-09 4.386E-02
 508N 10.13M/S 339K # 50 1.390E+01 1.390E+01 2.500E-09 4.386E-02



CE 88-177 Demnum S-20

NEWTONIAN MODEL TYPE 1

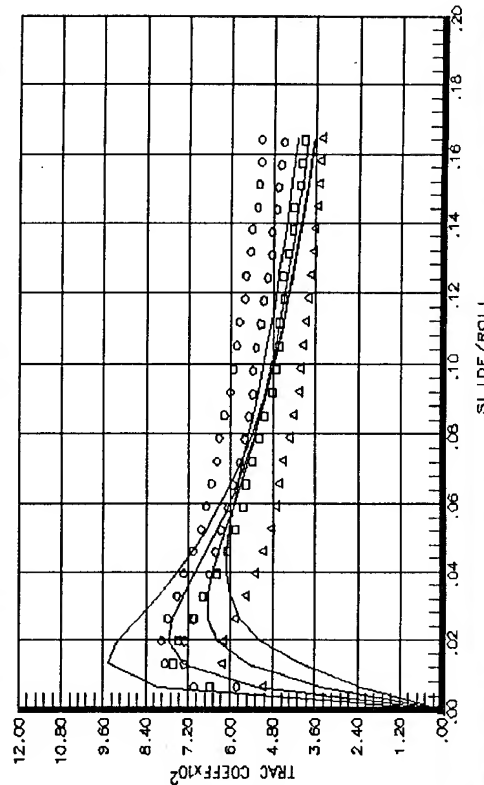
ce14.dat
 63N 15.24M/S 339K # 52 1.393E+01 1.393E+01 2.500E-09 3.628E-02 BETA*
 150N 15.24M/S 339K # 53 1.393E+01 1.393E+01 2.500E-09 3.628E-02 ALFA*
 294N 15.24M/S 339K # 54 1.393E+01 1.393E+01 2.500E-09 3.628E-02
 508N 15.24M/S 339K # 55 1.393E+01 1.393E+01 2.500E-09 3.628E-02



CE 88-177 Demnum S-20

NEWTONIAN MODEL TYPE 1

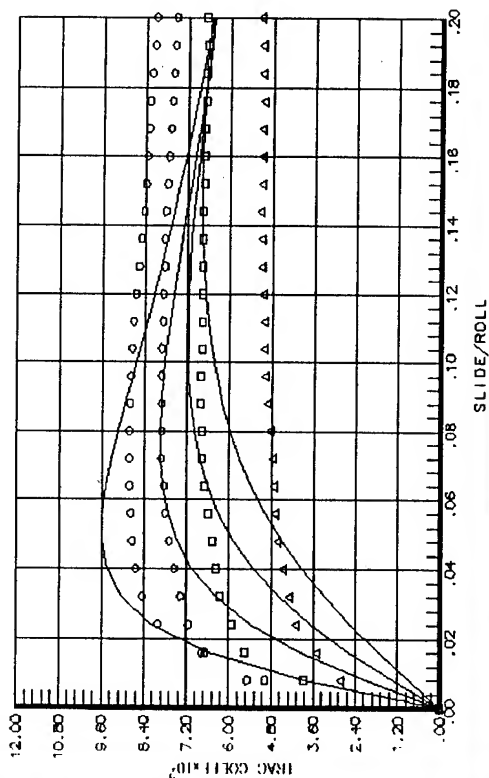
ce15.dat
 63N 20.34M/S 339K # 57 1.304E+01 1.304E+01 2.500E-09 2.894E-02 BETA*
 150N 20.34M/S 339K # 58 1.304E+01 1.304E+01 2.500E-09 2.894E-02 ALFA*
 294N 20.34M/S 339K # 59 1.304E+01 1.304E+01 2.500E-09 2.894E-02
 508N 20.34M/S 339K # 60 1.304E+01 1.304E+01 2.500E-09 2.894E-02



CE 88-177 Demnum S-20
NEWTONIAN MODEL TYPE 1

	63N	150N	294N	508N
998MPA	5.10M/S 367K # 82	5.10M/S 367K # 83	5.10M/S 367K # 84	5.10M/S 367K # 85
1321MPA	4.708E+00 2.500E-09	4.708E+00 2.500E-09	4.708E+00 2.500E-09	4.708E+00 2.500E-09
1653MPA	4.708E+00 2.500E-09	4.708E+00 2.500E-09	4.708E+00 2.500E-09	4.708E+00 2.500E-09
1989MPA	4.708E+00 2.500E-09	4.708E+00 2.500E-09	4.708E+00 2.500E-09	4.708E+00 2.500E-09

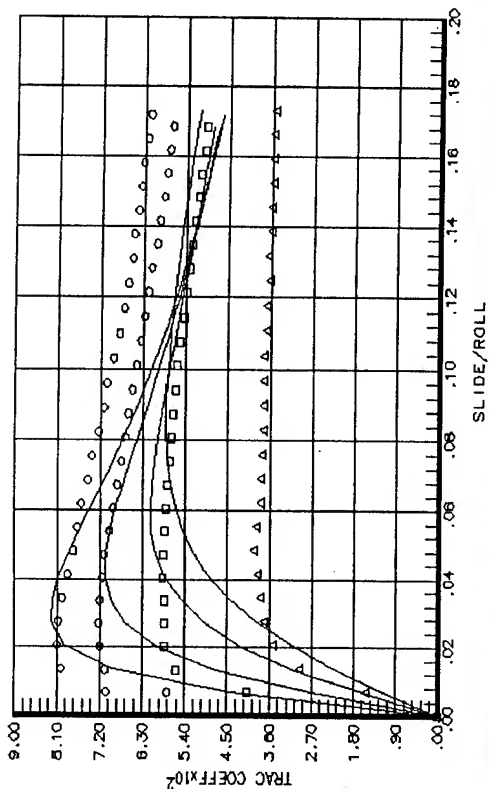
ALFA* BETA*
5.10E+00 2.500E-09 8.692E-02
5.10E+00 2.500E-09 8.692E-02
5.10E+00 2.500E-09 8.692E-02
5.10E+00 2.500E-09 8.692E-02



CE 88-177 Demnum S-20
NEWTONIAN MODEL TYPE 1

	63N	150N	294N	508N
998MPA	10.13M/S 367K # 87	10.13M/S 367K # 88	10.13M/S 367K # 89	10.13M/S 367K # 90
1327MPA	5.193E+00 2.500E-09	5.193E+00 2.500E-09	5.193E+00 2.500E-09	5.193E+00 2.500E-09
1653MPA	5.193E+00 2.500E-09	5.193E+00 2.500E-09	5.193E+00 2.500E-09	5.193E+00 2.500E-09
1989MPA	5.193E+00 2.500E-09	5.193E+00 2.500E-09	5.193E+00 2.500E-09	5.193E+00 2.500E-09

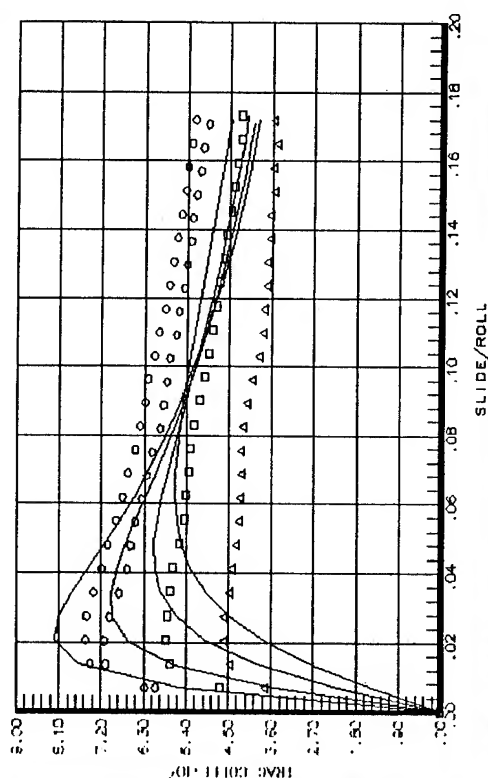
ALFA* BETA*
5.193E+00 2.500E-09 5.987E-02
5.193E+00 2.500E-09 5.987E-02
5.193E+00 2.500E-09 5.987E-02
5.193E+00 2.500E-09 5.987E-02



CE 88-177 Demnum S-20
NEWTONIAN MODEL TYPE 1

	63N	150N	294N	508N
998MPA	15.24M/S 367K # 92	15.24M/S 367K # 93	15.24M/S 367K # 94	15.24M/S 367K # 95
1327MPA	5.850E+00 2.500E-09	5.850E+00 2.500E-09	5.850E+00 2.500E-09	5.850E+00 2.500E-09
1653MPA	5.850E+00 2.500E-09	5.850E+00 2.500E-09	5.850E+00 2.500E-09	5.850E+00 2.500E-09
1989MPA	5.850E+00 2.500E-09	5.850E+00 2.500E-09	5.850E+00 2.500E-09	5.850E+00 2.500E-09

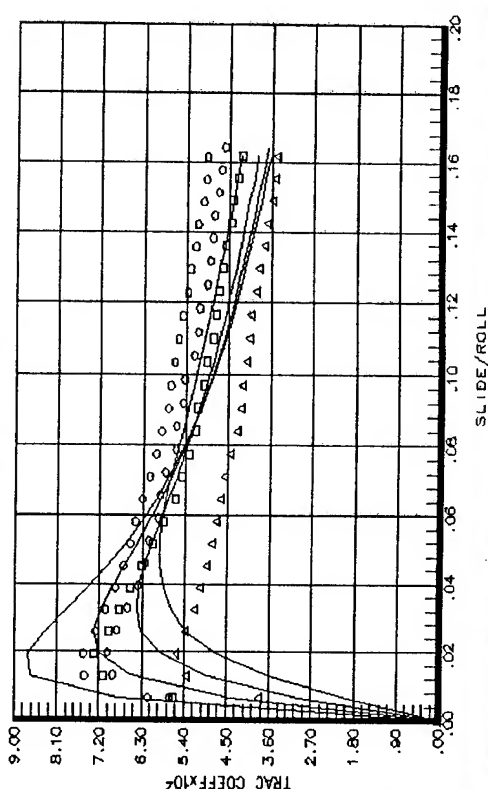
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5.850E+00 2.500E-09 4.568E-02
5.850E+00 2.500E-09 4.568E-02
5.850E+00 2.500E-09 4.568E-02



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	63N	150N	294N	508N
998MPA	20.34M/S 367K # 97	20.34M/S 367K # 98	20.34M/S 367K # 99	20.34M/S 367K # 100
1327MPA	6.838E+00 2.500E-09	6.838E+00 2.500E-09	6.838E+00 2.500E-09	6.838E+00 2.500E-09
1653MPA	6.838E+00 2.500E-09	6.838E+00 2.500E-09	6.838E+00 2.500E-09	6.838E+00 2.500E-09
1989MPA	6.838E+00 2.500E-09	6.838E+00 2.500E-09	6.838E+00 2.500E-09	6.838E+00 2.500E-09

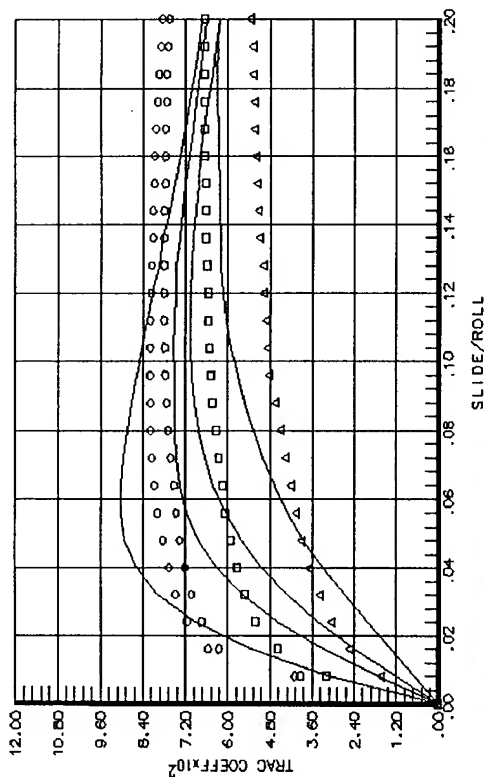
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6.838E+00 2.500E-09 3.928E-02
6.838E+00 2.500E-09 3.928E-02
6.838E+00 2.500E-09 3.928E-02



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NEWTONIAN MODEL TYPE 1

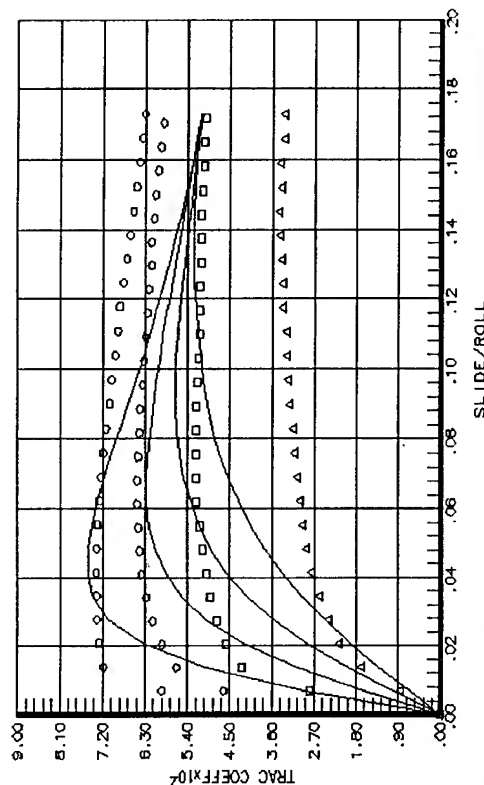
ALFA*
BETA*
XMU*
1000MPA 63N 5.10M/S 394K #122 2.147E+00 2.500E-09 1.42E-01
1325MPA 150N 5.10M/S 394K #123 2.147E+00 2.500E-09 1.42E-01
1653MPA 294N 5.10M/S 394K #124 2.147E+00 2.500E-09 1.42E-01
1989MPA 508N 5.10M/S 394K #125 2.147E+00 2.500E-09 1.42E-01



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NEWTONIAN MODEL TYPE 1

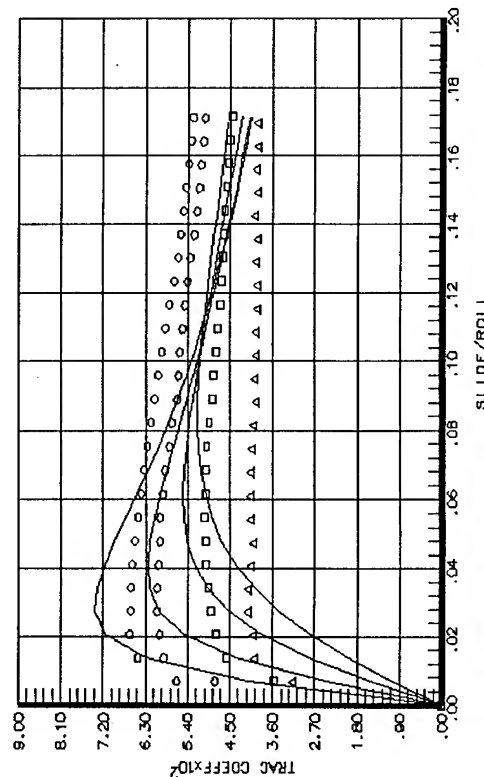
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1325MPA 150N 10.13M/S 394K #128 1.789E+00 2.500E-09 7.68E-02
1653MPA 294N 10.13M/S 394K #129 1.789E+00 2.500E-09 7.68E-02
1989MPA 508N 10.13M/S 394K #130 1.789E+00 2.500E-09 7.68E-02



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NEWTONIAN MODEL TYPE 1

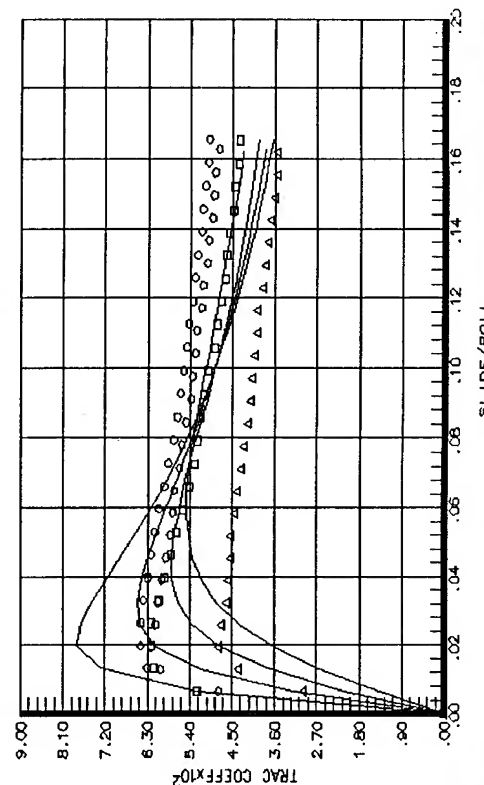
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1000MPA 63N 15.24M/S 394K #132 2.352E+00 2.500E-09 6.50E-02
1325MPA 150N 15.24M/S 394K #133 2.352E+00 2.500E-09 6.50E-02
1653MPA 294N 15.24M/S 394K #134 2.352E+00 2.500E-09 6.50E-02
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NEWTONIAN MODEL TYPE 1

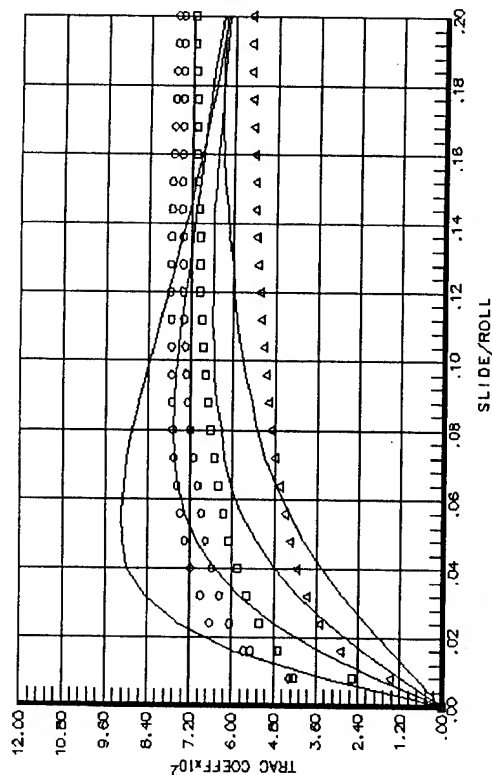
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BETA*
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1325MPA 150N 20.34M/S 394K #138 2.900E+00 2.500E-09 5.41E-02
1653MPA 294N 20.34M/S 394K #139 2.900E+00 2.500E-09 5.41E-02
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TYPE 1

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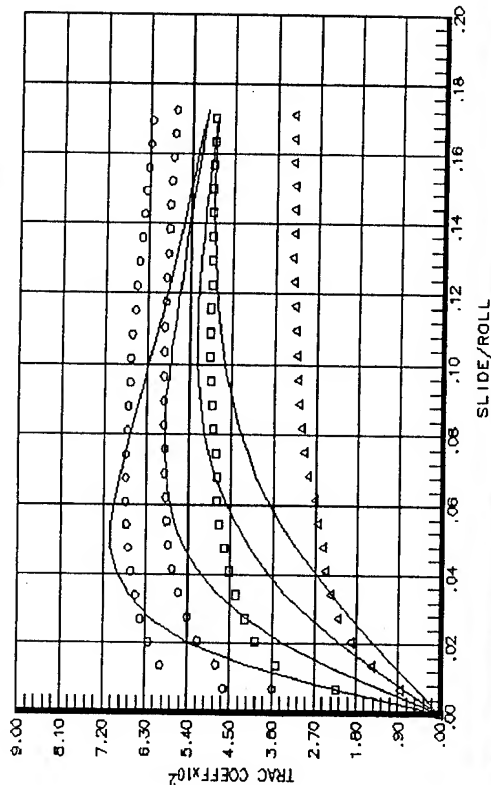
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63N 5.10M/S 422K #162 1.26E+00 2.50E-09 2.50E-09 2.78E-01
150N 5.10M/S 422K #163 1.26E+00 2.50E-09 2.50E-09 2.78E-01
294N 5.10M/S 422K #164 1.26E+00 2.50E-09 2.50E-09 2.78E-01
508N 5.10M/S 422K #165 1.26E+00 2.50E-09 2.50E-09 2.78E-01



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TYPE 1

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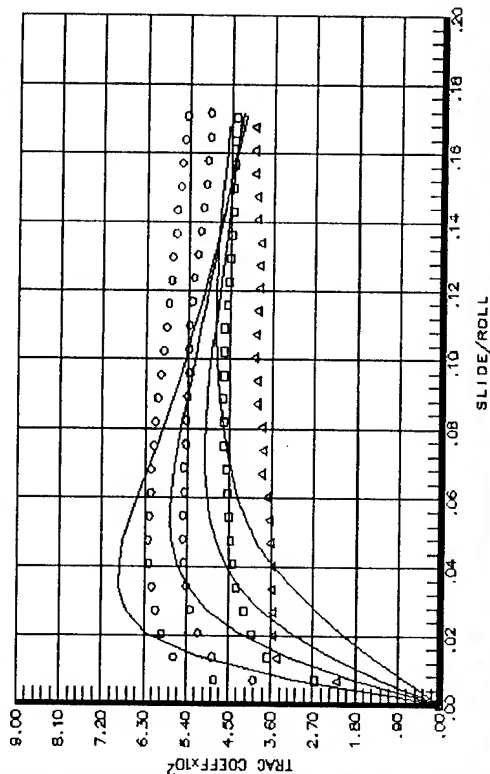
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150N 10.13M/S 422K #168 7.95E-01 2.50E-09 2.50E-09 1.13E-01
294N 10.13M/S 422K #169 7.95E-01 2.50E-09 2.50E-09 1.13E-01
508N 10.13M/S 422K #170 7.95E-01 2.50E-09 2.50E-09 1.13E-01



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TYPE 1

0e29.dat

NEWTONIAN MODEL
63N 15.24M/S 422K #173 1.04E+00 2.50E-09 2.50E-09 9.08E-02
150N 15.24M/S 422K #174 1.04E+00 2.50E-09 2.50E-09 9.08E-02
294N 15.24M/S 422K #175 1.04E+00 2.50E-09 2.50E-09 9.08E-02
508N 15.24M/S 422K #176 1.04E+00 2.50E-09 2.50E-09 9.08E-02



CE 88-177 Demnum S-20
TYPE 1

0e30.dat

NEWTONIAN MODEL
63N 20.34M/S 422K #177 1.37E+00 2.50E-09 2.50E-09 8.06E-02
150N 20.34M/S 422K #178 1.37E+00 2.50E-09 2.50E-09 8.06E-02
294N 20.34M/S 422K #179 1.37E+00 2.50E-09 2.50E-09 8.06E-02
508N 20.34M/S 422K #180 1.37E+00 2.50E-09 2.50E-09 8.06E-02

